

JVC

SERVICE MANUAL

LCD INTEGRATED DIGITAL TV

LT-37DS6FJ/P

BASIC CHASSIS

FL2

DynaPiX
Powered by D.I.S.T.

InteriArt

T-V LINK

BBE

HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

DVB[®]
Digital Video
Broadcasting



TABLE OF CONTENTS

1	PRECAUTION.....	1-3
2	SPECIFIC SERVICE INSTRUCTIONS.....	1-6
3	DISASSEMBLY	1-11
4	ADJUSTMENT	1-18
5	TROUBLESHOOTING	1-25

SPECIFICATION

Items		Contents
Dimensions (W × H × D)		92.6 cm × 113.0 cm × 56.5 cm [Included stand] 92.6 cm × 63.1 cm × 10.8 cm [TV only]
Mass		39.4 kg [Included stand] 20.9 kg [TV only]
Power Input		AC110V - AC240 V, 50 Hz / 60 Hz
Power Consumption		183 W (Standby: 2.6 W)
TV RF System	Analog Digital	CCIR (I) DVB-T
Colour System		PAL / NTSC 3.58/4.43 [EXT only]
Stereo System		NICAM (I)
Receiving Frequency	Analog Digital	UHF: 470 MHz - 862 MHz UHF: 474 MHz - 850 MHz
Intermediate Frequency	VIF SIF	38.9 MHz (I) 32.9 MHz (6.0 MHz :I)
Colour Sub Carrier Frequency	PAL NTSC	4.43 MHz 3.58 MHz / 4.43 MHz
Teletext System	Analog Digital	FLOF (Fastext level 2.5), WST(World Standard system) MHEG 5 UK profile
LCD panel		37V-inch wide aspect (16 : 9)
Screen Size		Diagonal : 94.9 cm (H: 82.6 cm × V: 46.7 cm)
Display Pixels		Horizontal : 1366 dots × Vertical : 768 dots (W-XGA)
Audio Power Output		10 W + 10 W
Speaker		6.6 cm, round type × 2 (Oblique corn)
Aerial terminal (VHF/UHF)		75 Ω unbalanced, coaxial
EXT-1 / EXT-2 (Input / Output)		21-pin Euro connector (SCART socket) × 2
EXT-3 (Input)	S-Video Video Audio	Mini-DIN 4 pin × 1 Y: 1 V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286 V (p-p) (Burst signal), 75 Ω 1 V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 1 500 mV (rms), High impedance, RCA pin jack × 2
EXT-4 (Input)	Component Video 1125i 625p / 525p / 625i / 525i Audio	RCA pin jack × 3 Y : 1 V (p-p) (Sync signal: ±0.35V(p-p), 3-value sync.), 75Ω Pb/Pr : ±0.35V(p-p), 75 Ω Y : 1 V (p-p), Positive (Negative sync provided), 75 Ω Cb/Cr : 0.7V(p-p), 75 Ω 500 mV(rms) (-4dBs), high impedance, RCA pin jack × 2
HDMI Input	Video Audio	HDMI connector × 1 (Digital-input terminal is not compatible with picture signals of computer signal) Digital: HDMI connector × 1 Anarog: 500mV(rms) (-4dBs), high impedance, RCA pin jack × 2
PC (RGB) Input		D-sub 15 pin × 1 R/G/B : 0.7 V (p-p), 75Ω HD / VD : 1 V (p-p) to 5 V (p-p), high impedance < Available signal > VGA : 640 pixels × 480 pixels (Horizontal : 31.5 kHz / Vertical : 60 Hz) XGA : 1024 pixels × 768 pixels (Horizontal : 48.4 kHz / Vertical : 60 Hz)
Audio output		500 mV (rms), Low impedance, RCA pin jack × 2
Headphone		3.5 mm stereo mini jack × 1
Remote Control Unit		RM-C1813H (AA/R6 dry cell battery × 2)

Design & specifications are subject to change without notice.

SECTION 1

PRECAUTION

1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

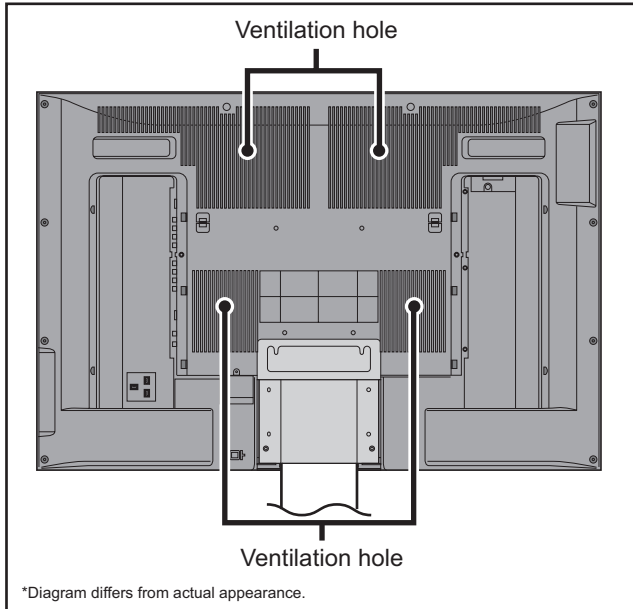
WARNING

- (1) The equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

1.2 INSTALLATION

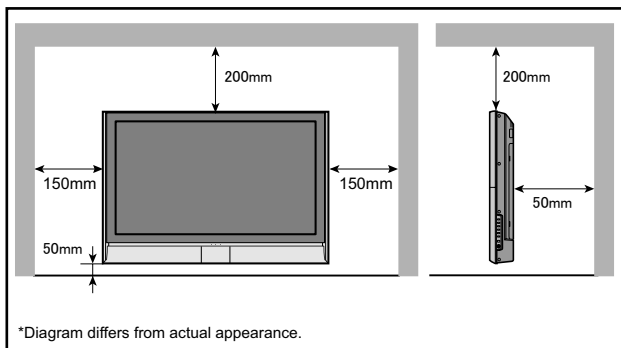
1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.



1.2.2 INSTALLATION REQUIREMENTS

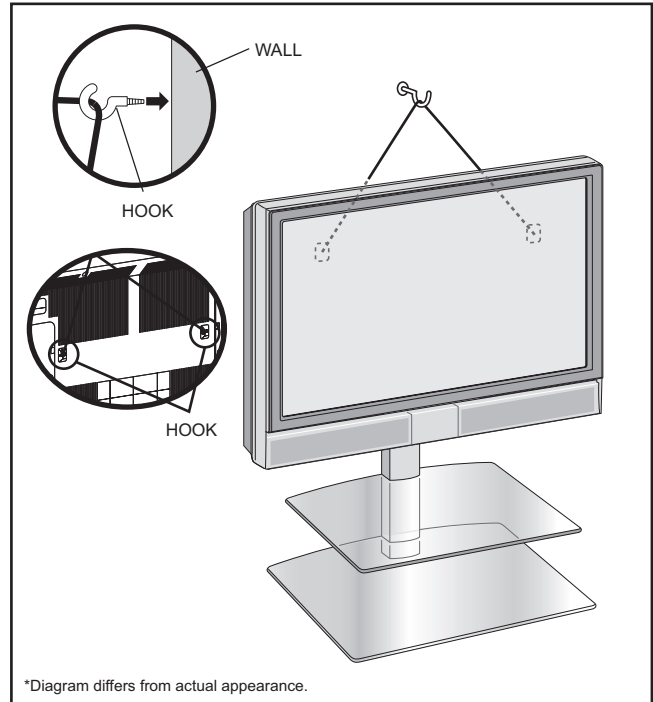
Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc. Install the unit on stable flooring or stands. Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



1.2.3 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.

Tie commercially available tough cord(s) to the hooks in the back of the TV, and fix the TV to solid walls or columns.



1.2.4 NOTES ON HANDLING

(1) WHEN TAKING UNIT OUT OF A PACKING CASE

When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

(2) AS FOR PRESSING OR TOUCHING A SPEAKER

Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.

1.3 HANDLING LCD PANEL

1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

- (1) **USE A SPECIAL PACKING CASE FOR THE LCD PANEL**
When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.

- (2) **ATTACH PROTECTION SHEET TO THE FRONT**
Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.

- (3) **AVOID VIBRATIONS AND IMPACTS**
The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.

- (4) **DO NOT PLACE EQUIPMENT HORIZONTALLY**
Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

- (1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and COLOUR.
- (2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).
- (3) Do not use solvents such as benzene or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.
- (4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

- (1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular COLOUR.
- (2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.
- (3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).

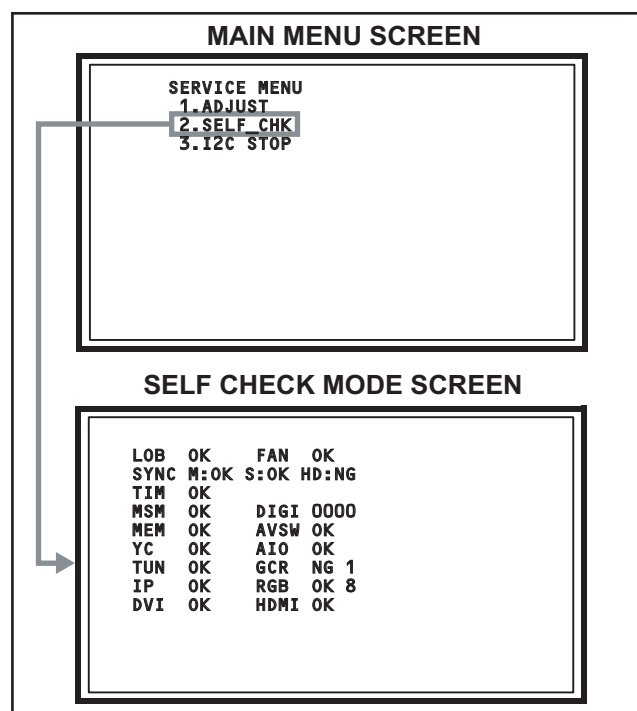
SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 SYSTEM SETTING

Be sure to carry out the following operation at the end of the procedure.

- (1) Press the **[INFORMATION]** key and **[MUTING]** key simultaneously, then enter the SERVICE MODE.
- (2) When the Main Menu is displayed, press **[2]** key to enter the self check mode.
- (3) Turn off the power by pressing the **[POWER]** key on the remote control unit.



2.2 FEATURES

DVB-T (DIGITAL TERRESTRIAL BROADCASTING)

This TV can receive both Digital terrestrial broadcasting (DVB-T) and Analogue terrestrial broadcasting.

D.I.S.T. (Digital Image Scaling Technology)

This system uses line interpolation to double the number of scanning lines and achieve high resolution, flicker-free picture.

COLOUR MANAGEMENT

This function ensures dull colours are compensated to produce natural hues.

PICTURE MANAGEMENT

This function makes it easier to see the dark areas when a picture has many dark areas, and makes it easier to see the bright areas when a picture has many bright areas.

ZOOM

This function can change the screen size according to the picture aspect ratio.

DIGITAL VNR

This function cuts down the amount of noise in the original picture.

SUPER DIGIPURE

This function uses the latest in digital technology to give you a natural-looking picture.

MOVIE THEATRE

This function displays a cinema film picture more smoothly and naturally on the screen.

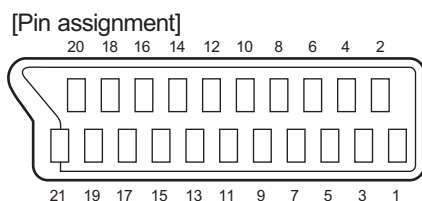
3D CINEMA SOUND

You can enjoy sounds with a wider ambience.

2.3 21-PIN EURO CONNECTOR (SCART) : EXT-1 / EXT-2

Pin No.	Signal designation	Matching value	EXT-1	EXT-2
1	AUDIO R output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)
2	AUDIO R input	500mV(rms) (Nominal), High impedance	Used (R1)	Used (R2)
3	AUDIO L output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)
4	AUDIO GND		Used	Used
5	GND (B)		Used	Used
6	AUDIO L input	500mV(rms) (Nominal), High impedance	Used (L1)	Used (L2)
7	B input	700mV _(B-W) , 75Ω	Used	Used
8	FUNCTION SW (SLOW SW)	Low : 0V-3V High : 8V-12V, High impedance	Used	Used
9	GND (G)		Used	Used
10	SCL / T-V LINK		Not used	Used (SCL2 / TV-LINK)
11	G input	700mV _(B-W) , 75Ω	Used	Used
12	SDA		Not used	Used (SDA2)
13	GND (R)		Used	Used
14	GND (YS)		Used	Not used
15	R / C input	R : 700mV _(B-W) , 75Ω C : 300mV _(P-P) , 75Ω	Used (R)	Used (C2/R)
16	Ys input (FAST SW)	Low : 0V-0.4V, High : 1V-3V, 75Ω	Used	Used
17	GND (VIDEO output)		Used	Used
18	GND (VIDEO input)		Used	Used
19	VIDEO output	1V _(P-P) (Negative sync), 75Ω	Used (TV OUT)	Used (LINE OUT)
20	VIDEO / Y input	1V _(P-P) (Negative sync), 75Ω	Used	Used
21	COMMON GND		Used	Used

(P-P= Peak to Peak, B-W= Blanking to white peak)



2.4 TECHNICAL INFORMATION

2.4.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.

Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

2.4.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

Item	Specifications
Maximum dimensions (W × H × D)	877 mm × 545 mm × 56 mm
Weight	8.5 kg
Effective screen size	Diagonal: 949 mm (H: 826 mm × V: 467 mm)
Aspect ratio	16 : 9
Drive device / system	a-Si-TFT active matrix system
Resolution	Horizontally 1366 × Vertically 768 × RGB < W-XGA > 3147264 dots in total
Pixel pitch (pixel size)	Horizontally: 0.6 mm Vertically: 0.6 mm
Displayed colour	16777216 colours 256 colours for R G and B
Brightness	500cd/m ²
Contrast ratio	800 : 1
Response time	6 ms
View angle	Horizontally: 170° , Vertically: 170°
Surface polarizer	Anti-Glare type Low reflective coat
Colour filter	Vertical stripe
Backlight	Direct-type Cold cathode fluorescent lamp × 18
Power supply voltage in LCD	5 V
Power supply voltage in inverter	24 V
Panel interface system	LVDS (Low Voltage Differential Signaling)

2.4.1.2 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

■ BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

■ DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.

For checking this pixel fault, input 100% of each R/G/B colour and find out the cell that is not lighting.

■ FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB colour and find out the cell that is flashing on and off.

2.4.2 MAIN CPU PIN FUNCTION [IC7501 : DIGITAL SIGNAL PWB]

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	TCK	I	Test purpose	65	D2	I/O	Program ROM data for main CPU
2	TMS	I	Test purpose	66	D12	I/O	Program ROM data for main CPU
3	TDI	I	Test purpose	67	D10	I/O	Program ROM data for main CPU
4	TDO	O	Test purpose	68	VSS33	-	GND
5	P2.8	O	Not used	69	VDD33	I	3.3V
6	P2.9	O	Blue for OSD	70	D4	I/O	Program ROM data for main CPU
7	P2.10	O	Blue for OSD	71	D3	I/O	Program ROM data for main CPU
8	P2.11	O	Blue for OSD	72	D11	I/O	Program ROM data for main CPU
9	P2.12	O	Blue for OSD	73	RSTIN	I	Reset
10	P2.13	O	Blue for OSD	74	POWER	O	Sleep state release for chassis CPU [Release : L]
11	P2.14	I	Not used	75	P3.1	O	Not used
12	P2.15	O	Request for chassis CPU communication	76	REMOCON	I	Remote control
13	VSS33	-	GND	77	P3.3	I	Clock for OSD
14	VDD33	I	3.3V	78	P3.4	O	Red for OSD
15	P4.5	O	Not used	79	P3.5	O	Red for OSD
16	A20	O	Program ROM address for main CPU	80	P3.6	O	Red for OSD
17	A19	O	Program ROM address for main CPU	81	P3.7	O	Red for OSD
18	A18	O	Program ROM address for main CPU	82	MTST	O	Data transmission for chassis CPU communication
19	A17	O	Program ROM address for main CPU	83	MTSR	I	Data receive for chassis CPU communication
20	VSS25	-	GND	84	VSS33	-	GND
21	VDD25	I	2.5V	85	VDD33	I	3.3V
22	A16	O	Program ROM address for main CPU	86	VSS25	-	GND
23	A8	O	Program ROM address for main CPU	87	VDD25	I	2.5V
24	A7	O	Program ROM address for main CPU	88	TXD0	O	Communication for adjustment
25	A9	O	Program ROM address for main CPU	89	RXD0	O	Communication for adjustment
26	A6	O	Program ROM address for main CPU	90	P3.12	O	Red for OSD
27	A5	O	Program ROM address for main CPU	91	CLK	O	Clock for chassis CPU communication
28	A10	O	Program ROM address for main CPU	92	P3.15	O	Green for OSD
29	A11	O	Program ROM address for main CPU	93	P5.14	O	Green for OSD
30	A12	O	Program ROM address for main CPU	94	P5.15	O	Green for OSD
31	VSS33	-	GND	95	TRIG_IN	O	Green for OSD
32	VDD33	I	3.3V	96	TRIG_OUT	O	Green for OSD
33	A4	O	Program ROM address for main CPU	97	P6.2	O	Green for OSD
34	A3	O	Program ROM address for main CPU	98	P6.3	O	I ² C bus clock (for main memory)
35	A2	O	Program ROM address for main CPU	99	P6.4	I/O	I ² C bus Data (for main memory)
36	A1	O	Program ROM address for main CPU	100	P6.5	O	Teletext signal select [Analog RGB : H / Digital RGB : L]
37	A0	O	Program ROM address for main CPU	101	IRQ	O	Not used
38	A13	O	Program ROM address for main CPU	102	VSYN	I	Vertical sync
39	ARAS/A14	O	Program ROM address for main CPU	103	HSYN	I	Horizontal sync
40	CAS/A15	O	Program ROM address for main CPU	104	COR/RSTOUT	O	Not used
41	VSS33	-	GND	105	BLANK	O	Ys for OSD / Teletext
42	VDD33	I	3.3V	106	VDD33	I	3.3V
43	MEMCLK	O	Clock for memory	107	VSS33	-	GND
44	CSSDRAM	O	Chip select for memory	108	XTAL1	I	6MHz for system clock
45	CLKEN	O	Clock enable for memory	109	XTAL2	O	6MHz for system clock
46	CSROM	O	Chip select for memory	110	VSSA	-	GND
47	RD	O	Read for memory	111	VDDA	I	2.5V
48	UDQM	O	Control buffer of memory	112	R	O	R for OSD / Teletext
49	LDQM	O	Control buffer of memory	113	G	O	G for OSD / Teletext
50	WR	O	Write for memory	114	B	O	B for OSD / Teletext
51	D15	I/O	Program ROM data for main CPU	115	VSSA	-	GND
52	VSS33	-	GND	116	VDDA	I	2.5V
53	VDD33	I	3.3V	117	CVBS2	I	Video for Teletext
54	D7	I/O	Program ROM data for main CPU	118	VSSA	-	GND
55	D0	I/O	Program ROM data for main CPU	119	VDDA	I	2.5V
56	D14	I/O	Program ROM data for main CPU	120	CVBS1B	I	Video for Teletext
57	D8	I/O	Program ROM data for main CPU	121	CVBS1A	I	Video for Teletext
58	D6	I/O	Program ROM data for main CPU	122	VSSA	-	GND
59	D1	I/O	Program ROM data for main CPU	123	VDDA	I	2.5V
60	VSS33	-	GND	124	KEY1	I	Key scan data 1 [ON : H]
61	VDD33	I	3.3V	125	KEY2	I	Key scan data 2 [ON : H]
62	D13	I/O	Program ROM data for main CPU	126	MECA_SW	I	Main power ON / OFF control [ON : L]
63	D9	I/O	Program ROM data for main CPU	127	P5.3	I	Not used
64	D5	I/O	Program ROM data for main CPU	128	TMODE	I	Test purpose

2.4.3 SUB (CHASSIS) CPU PIN FUNCTION [IC7001 : DIGITAL SIGNAL PWB]

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	LB_PRO	O	Not used	51	BS_TXD	O	Data transmission for digital tuner communication
2	P_MU	O	Picture muting [Muting = H]	52	BS_RXD	I	Data receive for digital tuner communication
3	JP_CSB	O	Not used (NC)	53	NC	O	Not used (NC)
4	A_MU	O	Audio muting [Muting = H]	54	VREF+	I	3.3V power supply
5	M_MU	O	Audio muting (for AUDIO OUT) [Muting = H]	55	PDP_TX	O	Data transmission for SUB (DRIVE) CPU communication
6	PC_SEL	O	RGB(PC) INPUT select	56	PDP_RX	I	Data receive for SUB (DRIVE) CPU communication
7	ON_TIMER	O	POWER INDICATOR (LED) brightness [LOW = L]	57	SDA0	I/O	Data for Inter IC (serial) bus : EEP-ROM (IC7002)
8	ILA0	O	LCD back light lighting	58	SCL0	O	Clock for Inter IC (serial) bus : EEP-ROM (IC7002)
9	ILA1	O	LCD panel overshoot refresh timing	59	SDA_DVI	I/O	Not used : Data for Inter IC (serial) bus for panel communication
10	ILA2	O	Not used	60	SCL_DVI	O	Not used : Clock for Inter IC (serial) bus for panel communication
11	POW_LED	O	POWER LED lighting [ON = H]	61	AVSS	-	GND
12	WORD	O	Not used	62	DIGI_PHOT	I	Not used: Photo sensor for DIGITAL-IN illegal copy protection
13	MI_CK	I	Clock for main CPU communication	63	AGC	I	Not used
14	MI_TX	I	Data receive for main CPU communication	64	EXT_YS1	I	Not used
15	MI_RX	O	Data transmission for MAIN CPU communication	65	EXT_YS2	I	Not used
16	MI_REQ	O	Data request for main CPU communication [Request = L]	66	VDD	I	3.3V power supply
17	VDD	I	3.3V power supply	67	DIGI_PRO	O	Not used : For DIGITAL-IN (HDMI)
18	FOSC	O	Not used (NC)	68	GCR_RST	O	Not used (NC)
19	VSS	-	GND	69	GR_ON	O	Not used (NC)
20	X1	I	Not used : Low speed oscillator	70	SYNC_SEL	O	Not used : Sync select for digital tuner
21	X0	O	Not used : Low speed oscillator	71	NC	O	Not used (NC)
22	VDD	I	3.3V power supply	72	NC	O	Not used (NC)
23	OSC1	I	System clock oscillation (crystal) : 16MHz	73	SBD5	I/O	Not used : Data for writing on board (connect CN01P : for Frash ROM type)
24	OSC0	O	System clock oscillation (crystal) : 16MHz	74	SBT5	I	Not used : Clock for writing on board (connect CN01P : for Frash ROM type)
25	MODE	I	Single chip mode	75	NMI	I	3.3V power supply
26	BS1.5CTL	O	Digital tuner power / reset control	76	COMP	I	Not used : AV COMPULINK III control
27	A92RES	O	Reset for IC1001(3D YC SEP / COLOUR DEMODULAT) [Reset = H]	77	REMO	I	Remote control
28	BS_RST	O	Reset for Digital tuner power / reset control	78	VSYSN	I	V. sync pulse
29	LIP_RST	O	Reset for Sound delay (Lip sync)	79	WAKE	I	Reset for sub(chassis) CPU
30	SOFT_OFF	O	Not used	80	POWERGOOD	I	Power error detection [NG = H]
31	VMUTE	I	Picture muting request from digital tuner	81	NC	O	Not used (NC)
32	VOUTENB	O	Video cutoff for digital tuner	82	RST	I	Reset for MAIN CPU [Reset = L]
33	MDR_CON	I	Not used: System cable connection monitor for PDP	83	VDD	I	3.3V power supply
34	AVDD	I	3.3V power supply	84	SCL3A	O	Clock for Inter IC (serial) bus control
35	BS_POW	O	Digital tuner power control	85	SDA3A	I/O	Data for Inter IC (serial) bus control
36	DsyncSW2	O	Sync select for DIGITAL-IN [Cotrolled with 99-pin]	86	SCL3B	O	Clock for Inter IC (serial) bus control
37	LB_POW	O	Power control for low bias line	87	SDA3B	I/O	Data for Inter IC (serial) bus control
38	NC	O	Not used (NC)	88	DIGI_SYNCSEL	O	Not used
39	HOTPLUG	I	Not used : Video communication monitor for receiver unit (PDP)	89	DIGI_LRSW	O	Not used : For DIGITAL-IN (HDMI)
40	MECA_SW	I	Mechanical monitor for POWER switch [Push = L]	90	DIGI_INT	I	Not used : Reset for HDMI process [Reset = L]
41	MAIN_POW	O	Main power control [ON = L]	91	DVI_RST	O	Not used : Reset for DVI format conversion
42	MSP_RST	O	AUDIO OUT output mode select [VARIABLE = L]	92	VSS	-	GND
43	VREF-	I	Not used	93	SCL5055	O	Clock for Inter IC (serial) bus : JCC5055 (DIST process)
44	AFT2	I	Not used : AFT voltage for sub tuner	94	VFORMATSEL	O	Digital tuner clock control
45	AFT1	I	AFT voltage for VHF/UHF tuner	95	SDA5055	I/O	Data for Inter IC (serial) bus : JCC5055 (DIST process)
46	KEY2	I	Key scan data for front switch (MENU/CH+/CH-)	96	OSD_MODE_SEL	O	Not used : OSD mode select
47	KEY1	I	Key scan data for front switch (VOL+/VOL-)	97	NC	O	Not used (NC)
48	NC	O	Not used (NC)	98	15K/OTH	O	Main video select [Fixed = H]
49	NC	O	Not used (NC)	99	DsyncSW1	O	Not used : Sync select for DIGITAL-IN [Cotrolled with 36-pin]
50	AC_IN	I	AC power pulse for timer clock	100	57 BUSY	I	Busy monitor for JCC5057 (New DIST process)

SECTION 3

DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

CAUTION AT DISASSEMBLY:

- **Be sure to perform the SYSTEM SETTING, at the end of the procedure.**
- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

3.1.1 REMOVING THE STAND (Fig.1)

- (1) Remove the 2 screw [A], then remove the STAND COVER.
- (2) Remove the 4 screws [B], then remove the STAND.

3.1.2 REMOVING THE REAR COVER (Fig.1)

- Remove the STAND.
 - (1) Remove the JACK COVER (L/R).
 - (2) Remove the 10 screws [C], the 3 screws [D], and the 2 screws [E].
 - (3) Remove the REAR COVER.

3.1.3 REMOVING THE REGULATOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 4 screws [F], then remove the FAN BRACKET.
 - (2) Remove the 1 screw [G], then remove the POWER CORD HOLDER.
 - (3) Remove the POWER CORD from the POWER PWB.
 - (4) Remove the REGULATOR PWB.

3.1.4 REMOVING THE POWER PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
 - (1) Remove the 4 screw [H], then remove the POWER PWB.

3.1.5 REMOVING THE ANALOG SYGNAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
 - (1) Remove the 3 screws [J], then remove the TERMINAL BASE.
 - (2) Remove the 5 screws [K] and 1screw [L], then remove the ANALOG SIGNAL PWB.

3.1.6 REMOVING THE FRONT CONTROL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 3 screws [M], then remove the CONTROL ASSY with the FRONT CONTROL PWB.
 - (2) Remove the FRONT CONTROL PWB.

3.1.7 REMOVING THE RECEIVER PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
 - (1) Remove the 3 screws [N] and the 1 screw [P], then remove the TUNER BASE.
 - (2) Remove the 2 screws [Q], then remove the RECEIVER PWB.

3.1.8 REMOVING THE CONNECTOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the TOP SHIELD CASE.
 - (1) Remove the 4 screws [S], then remove the RECEIVER PWB BRACKET.
 - (2) Remove the 1 screw [T], then remove the CONNECTOR PWB.

3.1.9 REMOVING THE DIGITAL TUNER UNIT (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the TUNER BASE.
 - (1) Remove the 7 screws [U] and the 3 screws [V], then remove the SHIELD COVER.
 - (2) Remove the 2 screws [W], then remove the SIDE SHIELD CASE.
 - (3) Remove the 5 screws [X], then remove the DIGITAL TUNER UNIT.

3.1.10 REMOVING THE DIGITAL SIGNAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the TUNER BASE.
- Remove the DIGITAL TUNER UNIT.
 - (1) Remove the 5 screws [Y], then remove the DIGITAL BRACKET.
 - (2) Remove the DIGITAL SIGNALPWB.

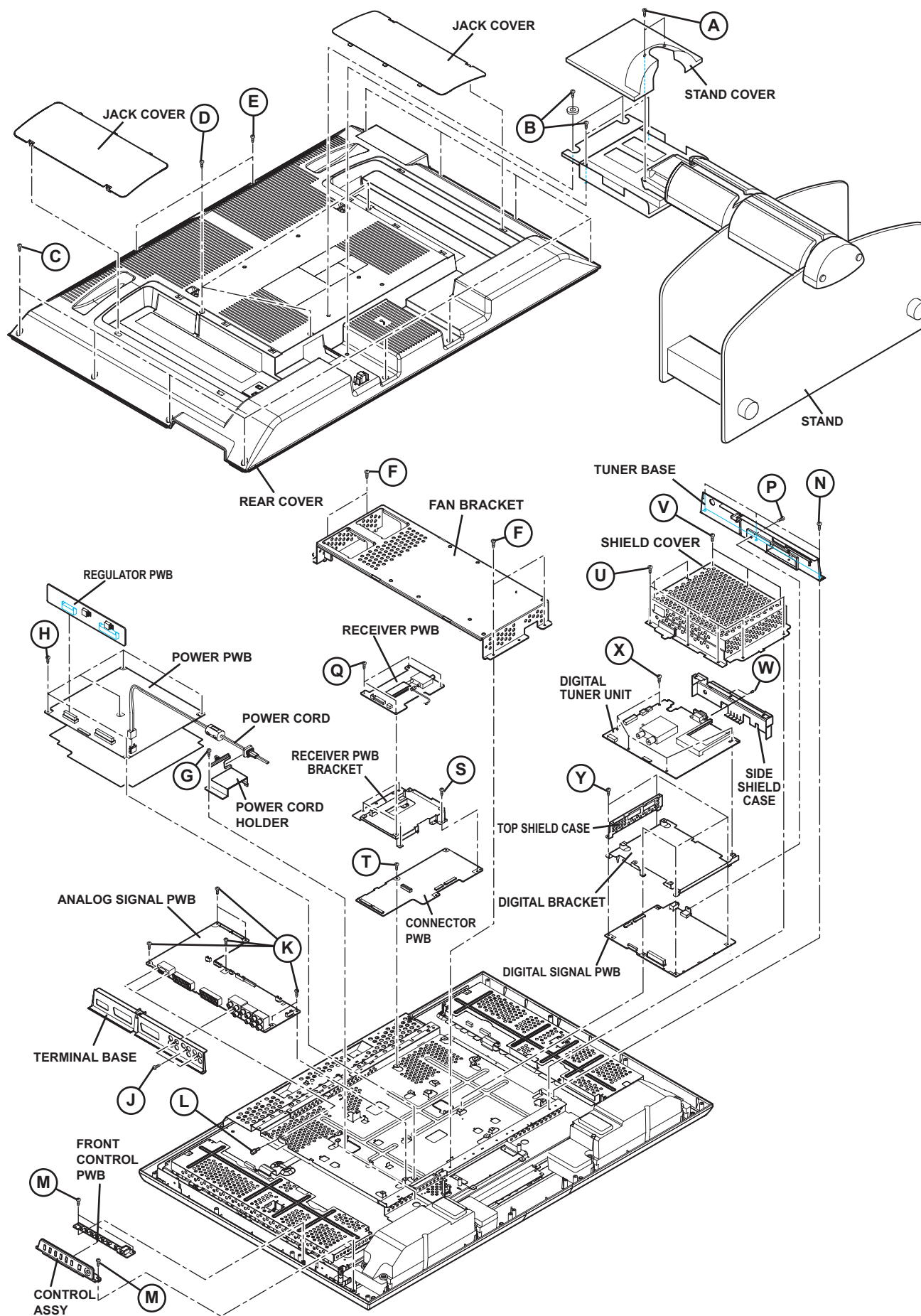


Fig.1

3.1.11 REMOVING THE SPEAKER (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
- (1) Remove the 6 screws **[A]**, then remove the SPEAKER (L /R).

NOTE:

- Since the speaker is attached in a certain direction, attach the speaker in the same correct direction as it has been attached.
- When the speaker is decomposed, the performance cannot be kept.

3.1.12 REMOVING THE FRONT LED PWB (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
- (1) Remove the 2 screws **[B]**, then remove the FRONT LED PWB.

3.1.13 REMOVING THE LED LENS (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
- Remove the FRONT LED PWB.
- (1) Remove the 2 screws **[J]**, then remove the LED LENS.

3.1.14 REMOVING THE LCD PANEL UNIT (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
- (1) Remove the 2 screws **[C]**, then remove the MAIN BASE.
- (2) Remove the 3 screws **[D]**, the 2 screws **[E]** and the 1 screw **[F]**, then remove the TOP FRAME.
- (3) Remove the 2 screws **[G]** and the 2 screws **[H]**, then remove the BOTTOM FRAME.
- (4) Remove the LCD PANEL UNIT from the FRONT PANEL.

NOTE:

- Pay special attention not to break or damage on the FRONT PANEL.
- The LCD PANEL UNIT is fixed to the FRONT PAMEL (at the back side)by using double-side adhesive tapes. To remove the LCD PANEL UNIT, remove the adhesive tape on the FRONT PANELslowly.

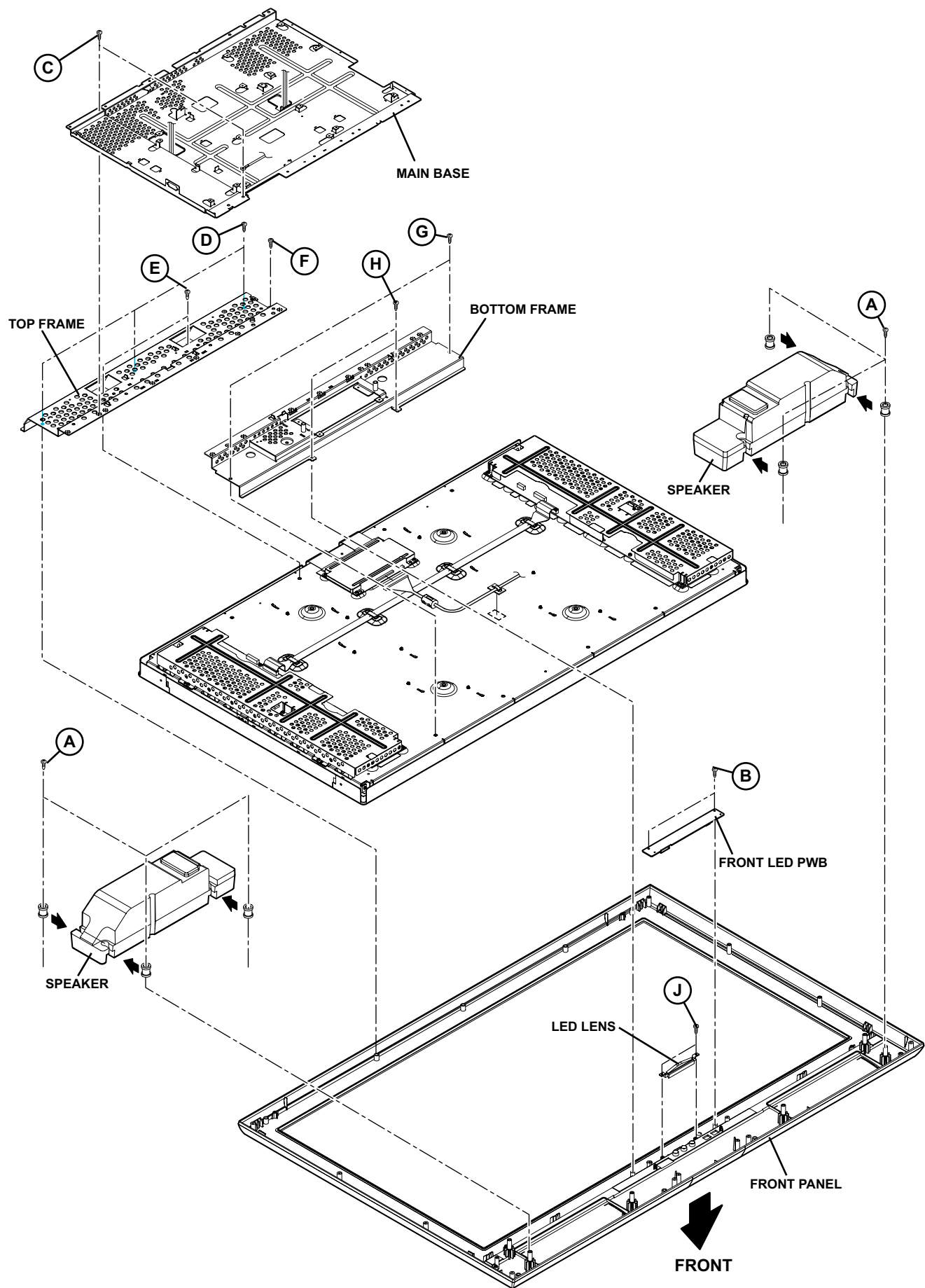


Fig.2

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off

Switch off the power and disconnect the power plug from the AC outlet.

2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

3. Power on

Connect the power plug to the AC outlet and switch on the power.

4. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

5. User setting

Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

6. SERVICE MODE setting

Verify what to set in the SERVICE MODE, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

3.2.2 SERVICE MODE SETTING

■SERVICE MODE SCREEN

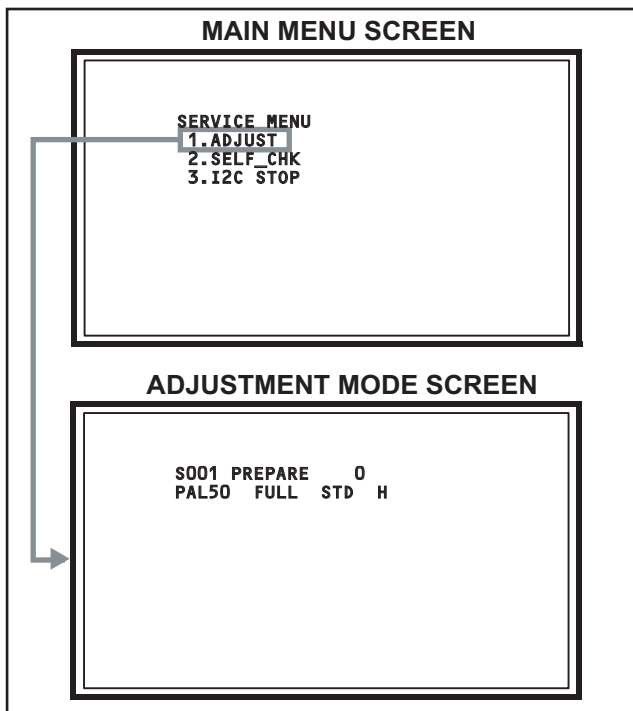


Fig.1

■SETTING ITEM

Setting items	Settings	Item No.
Video system setting	Adjust	S001 - S039
Audio system setting	Fixed	T001 - T010
Panel control system setting	Fixed	P001 - P010
Drive system setting	Fixed	D001 - D187
Main CPU system setting	Fixed	Z001 - Z010

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR1
VOLUME	10
TV/AV	TV

3.2.3.3 REMOTE CONTROL MENU OPERATION

(1) PICTURE

Setting item	Setting position
PICTURE MODE	BRIGHT
COLOUR TEMP.	COOL
FEATURES	
DIGITAL VNR	AUTO (LOW)
Super DigiPure	AUTO
MOVIE THEATRE	AUTO
COLOUR MANAGEMENT	ON
PICTURE MANAGEMENT	ON
COLOUR SYSTEM	TV Depends on PR/CH
	EXT AUTO
4:3 AUTO ASPECT	PANORAMIC

(2) SOUND

Setting item	Setting position
STEREO / I•II	Stereo sound
BASS	Centre
TREBLE	Centre
BALANCE	Centre
3D SOUND	OFF
A.H.B.	ON
BBE	ON

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR1
VOLUME	10
ZOOM	PANORAMIC
3D SOUND	OFF

(4) FEATURES

Setting item	Setting position
SLEEP TIMER	OFF
CHILD LOCK	ID NO.0000, All CH off
APPEARANCE	TYPE D
BLUE BACK	ON
FAVOURITE SETTING	Reset
ILLUMINATION	BRIGHT

(5) SET UP

Setting item	Setting position
AUTO PROGRAM	TV channel automatically set
EDIT/MANUAL	PRESET CH only
LANGUAGE	ENGLISH
DECODER (EXT-2)	OFF
COMPONENT AUTO SELECT	ON
HDMI SETTING	AUTO
ATTENUATOR	OFF
EXT SETTING	
S-IN	BLANK
ID	BLANK
DUBBING	EXT-1 → EXT-2

(6) DTV

Setting item	Setting position
Timers	
Name	****
Start	00:00
End	00:00
Date	01/01/2004
Mode	Inactive
Configuration	
Audio Language	English
Subtitle	English
Favourite Mode	off
Receiver Upgrade	V.*.*
Menu Lock	Disabled

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

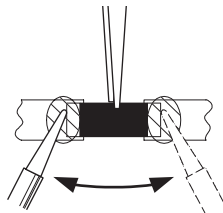
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

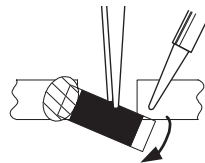
1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

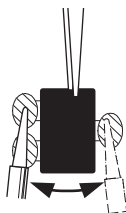


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



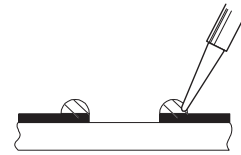
NOTE :

After removing the part, remove remaining solder from the pattern.

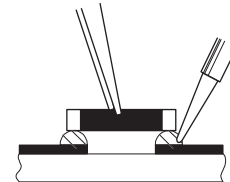
2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

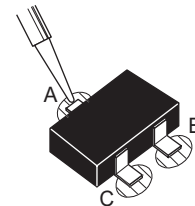


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

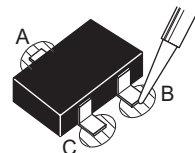


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



SECTION 4 ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

- (1) The adjustment using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (2) Make sure that connection is correctly made AC to AC power source.
- (3) Turn on the power of the TV and measuring instruments for warming up for at least 30 minutes before starting adjustments.
- (4) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (5) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT.

Setting item	Settings position
PICTURE MODE	STANDARD
PICTURE adjustments	Centre
COLOUR TEMP.	NORMAL
DIGITAL VNR	AUTO (LOW)
Super DigiPure	AUTO
MOVIE THEATRE	AUTO
COLOUR MANAGEMENT	ON
PICTURE MANAGEMENT	ON
SOUND adjustments	Centre
BBE	OFF
3D SOUND	OFF
A.H.B	OFF
ZOOM	FULL

4.3 MEASURING INSTRUMENT AND FIXTURES

- Oscilloscope
- Signal generator (Pattern generator)
[PAL / 625i / 625p / 1125i(50Hz)]
- Remote control unit

4.4 ADJUSTMENT ITEMS

■ VIDEO CIRCUIT

- 625i A-D OFFSET adjustment
- 1125i(50Hz) BRIGHTNESS adjustment
- 1125i(50Hz) A-D OFFSET adjustment
- SUB SCREEN A-D OFFSET adjustment
- WHITE BALANCE (HIGH LIGHT) adjustment

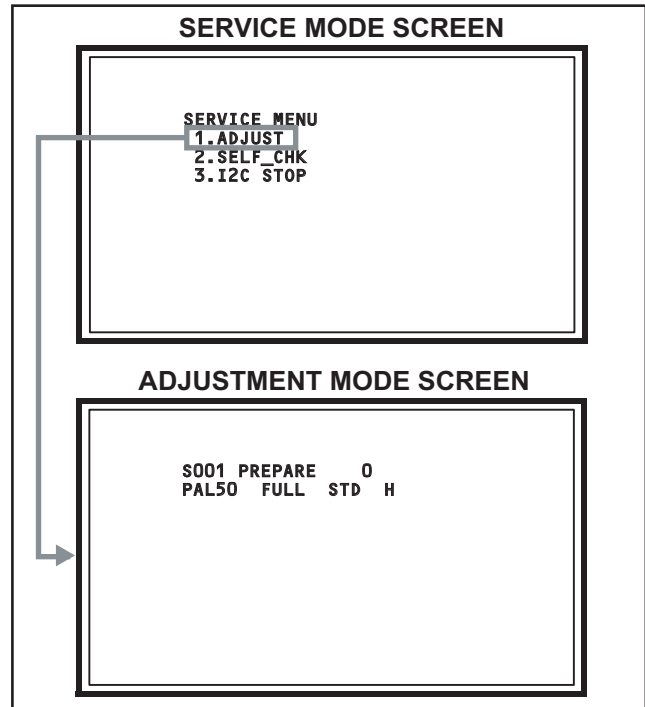
4.5 BASIC OPERATION OF SERVICE MODE

4.5.1 HOW TO ENTER THE SERVICE MODE

- (1) Press **[INFORMATION]** key and **[MUTING]** key on the remote control unit simultaneously to enter the SERVICE MODE SCREEN.
- (2) In the SERVICE MENU, press the **[1]** key to display ADJUSTMENT MODE SCREEN.

NOTE:

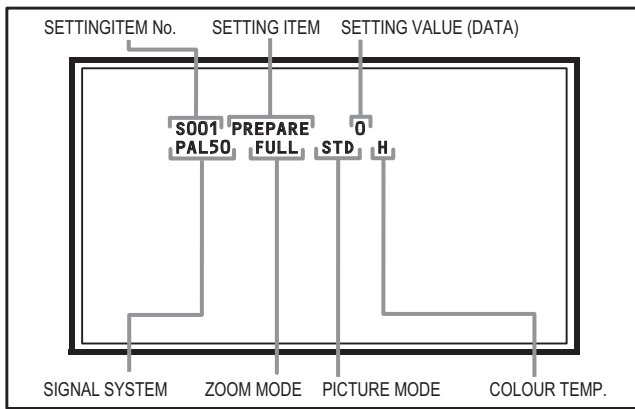
- Before entering the SERVICE MODE, confirm that the setting of VCR/TV/DVD switch is at the "TV" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.
- When a number key other than the **[1]** key is pressed in the SERVICE MODE SCREEN, the other relevant screen may be displayed.
This is not used in the adjustment procedure. Press the **[MENU]** key to return to the SERVICE MODE SCREEN.



4.5.2 HOW TO EXIT THE SERVICE MODE

Press the **[MENU]** key to exit the Service mode.

4.5.3 DESCRIPTION OF STATUS DISPLAY



(1) SIGNAL SYSTEM

The signal displayed on the screen is displayed.

PAL50	: PAL50Hz (Composite / S-video)
PAL60	: PAL60Hz (Composite / S-video)
SECAM	: SECAM
NTSC3	: NTSC3.58
NTSC4	: NTSC4.43
525I	: 525i (Component)
525P	: 525p
625I	: 625i (Component)
625P	: 625p
1125I5	: 1125i 50Hz
1125I6	: 1125i 60Hz
RGB5	: RGB 525i
RGB6	: RGB 625i
PCVGA	: PC (VGA)
PCXGA	: PC (XGA)
H525I	: HDMI 525i
H525P	: HDMI 525p
H625I	: HDMI 625i
H625P	: HDMI 625p
H750P	: HDMI 750p
H1125I5	: HDMI 1125i 50Hz
H1125I6	: HDMI 1125i 60Hz

(2) ZOOM MODE

State of the SCREEN SIZE or MULTI PICTURE is displayed.

SINGLE SCREEN

FULL	: FULL
PANO	: PANORAMIC
1609	: 16:9 ZOOM
1609S	: 16:9 ZOOM SUBTITLE
1409	: 14:9 ZOOM
REGU	: REGULAR

MULTI SCREEN

M2	: 2-pictures multi
M12	: 12-pictures multi

(3) PICTURE MODE

STD	: STANDARD
BRI	: BRIGHT
SOFT	: SOFT

(4) COLOUR TEMP.

H	: COOL
M	: NORMAL
L	: WARM

(5) SETTING ITEM NAME

Setting item name are displayed. The setting item numbers to be displayed are listed below.

Item No.	Setting item
S001 to S039	Video system setting
T001 to T010	Audio system setting
P001 to P010	Panel control system setting
D001 to D187	Drive system setting
Z001 to Z010	Main CPU system setting

(6) SETTING ITEM NO.

Setting item numbers are displayed. For the setting item names to be displayed, refer to "INITIAL SETTING VALUES IN THE SERVICE MODE".

(7) SETTING VALUE (DATA)

The SETTING VALUE is displayed.

4.5.4 CHANGE AND MEMORY OF SETTING VALUE

SELECTION OF SETTING ITEM

- [FUNCTION ▲/▼] key.

For scrolling up / down the setting items.

S001... ↔ T001... ↔ P001... ↔ D001... ↔ Z001...

CHANGE OF SETTING VALUE (DATA)

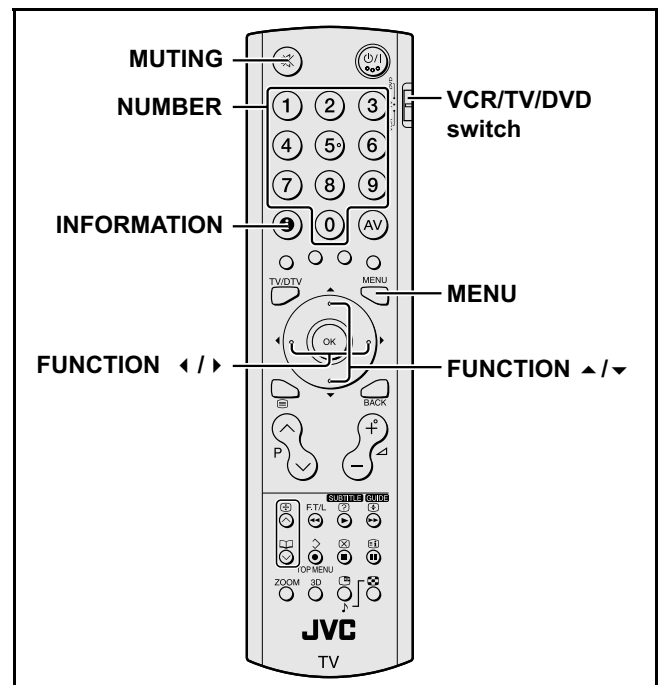
- [FUNCTION ◀/▶] key.

For scrolling up / down the setting values.

MEMORY OF SETTING VALUE (DATA)

Changed setting value is memorized by pressing [MUTING] key.

4.5.5 SERVICE MODE SELECT KEY LOCATION



4.6 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values. But, don't change the values that are not written in "ADJUSTMENT PROCEDURE". They are fixed values.

4.6.1 VIDEO SYSTEM SETTING

Item No.	Item name	Variable range	Setting value
S001	PREPARE	0 - 31	0
S002	NTSC BL	0 - 15	0
S003	NTSC CNT	0 - 255	53
S004	NT CR OF	0 - 15	6
S005	NT CB OF	0 - 15	6
S006	525i BL	0 - 15	0
S007	525i CNT	0 - 255	53
S008	5i CB OF	0 - 15	0
S009	5i CR OF	0 - 15	0
S010	5i CR GN	0 - 15	6
S011	5i CB GN	0 - 15	6
S012	HD BL	0 - 63	59
S013	HD CB OF	0 - 63	59
S014	HD CR OF	0 - 63	56
S015	RT CONT	0 - 15	8
S016	RT CB OF	0 - 15	7
S017	RT CR OF	0 - 15	6
S018	RT CL GA	0 - 15	1
S019	PC CL MB	0 - 7	0
S020	PC CL LB	0 - 31	0
S021	PC CL MR	0 - 71	0
S022	PC CL LR	0 - 31	0
S023	(Not display)	0 - 255	0
S024	(Not display)	0 - 255	0
S025	(Not display)	0 - 255	0
S026	(Not display)	0 - 255	0
S027	(Not display)	0 - 255	0
S028	(Not display)	0 - 255	0
S029	(Not display)	0 - 255	0
S030	R DRIVE	0 - 255	133
S031	G DRIVE	0 - 255	132
S032	B DRIVE	0 - 255	95
S033	(Not display)	0 - 255	0
S034	(Not display)	0 - 255	0
S035	(Not display)	0 - 255	0
S036	(Not display)	0 - 255	0
S037	(Not display)	0 - 255	0
S038	(Not display)	0 - 255	0
S039	ILA COM	0 - 1	0

4.6.2 AUDIO SYSTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value
T001	IN LEVEL	0 - 255	0
T002	LOW SEP	0 - 255	0
T003	HIGH SEP	0 - 255	0
T004	AFC	0 - 255	0
T005	(Not display)	0 - 255	0
T006	ATT V ON	0 - 1	0
T007	ATT U ON	0 - 1	0
T008	ATT C ON	0 - 1	0
T009	(Not display)	0 - 255	0
T010	(Not display)	0 - 255	0

4.6.3 PANEL CONTOROL SYSTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value
P001	TM HOR H	00 - FF	00
P002	TM HOR L	00 - FF	00
P003	TM MIN	00 - FF	00
P004	TEMP	0 - 255	0
P005	(Not display)	0 - 255	0
P006	(Not display)	0 - 255	0
P007	(Not display)	0 - 255	0
P008	(Not display)	0 - 255	0
P009	(Not display)	0 - 255	0
P010	(Not display)	0 - 255	0

4.6.4 DRIVE SYSTEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value
D001	SLV GN	00 - 3F	15
D002	SLVH GN	00 - 3F	12
D003	SLH GN	00 - 3F	15
D004	SLV Pf	00 - 03	01
D005	SLH Pf H	00 - 01	01
D006	SLH Pf L	00 - 03	01
D007	SL EGCON	00 - 3F	10
D008	SL EGONF	00 - 01	01
D009	SL CRGON	00 - 3F	09
D010	SL CRGON	00 - 01	01
D011	SL ON OF	00 - 01	01
D012	SV GN	00 - 3F	0A
D013	SVH GN	00 - 3F	09
D014	SH GN	00 - 3F	0B
D015	SV Pf	00 - 03	01
D016	SV PfH	00 - 01	01
D017	SV PfL	00 - 03	01
D018	SYL CON	00 - 3F	30
D019	SYL CONF	00 - 01	01

Item No.	Item name	Variable range	Setting value
D020	SYH CON	00 - 3F	00
D021	SYH CONF	00 - 01	01
D022	SC CON	00 - 3F	1A
D023	SC CNONF	00 - 01	01
D024	SPM BLC	00 - 3F	00
D025	SPM BLCO	00 - 01	01
D026	SLIM	00 - 3F	30
D027	SLIMONF	00 - 01	01
D028	SCRG	00 - 3F	09
D029	SRGONF	00 - 01	01
D030	S ONF	00 - 01	01
D031	pb GN	00 - 3F	15
D032	pb PfH	00 - 01	01
D033	pb PfL	00 - 03	00
D034	pb CRG	00 - 3F	10
D035	pb CRGON	00 - 01	01
D036	pb ONF	00 - 01	01
D037	pr GN	00 - 3F	15
D038	pr PfH	00 - 01	01
D039	pr PfL	00 - 03	00
D040	pr CRG	00 - 3F	10
D041	pr CRGON	00 - 01	01
D042	pr ONF	00 - 01	01
D043	ENH ONF	00 - 01	01
D044	(Not display)	00 - FF	00
D045	(Not display)	00 - FF	00
D046	(Not display)	00 - FF	00
D047	(Not display)	00 - FF	00
D048	(Not display)	00 - FF	00
D049	(Not display)	00 - FF	00
D050	(Not display)	00 - FF	00
D051	(Not display)	00 - FF	00
D052	(Not display)	00 - FF	00
D053	(Not display)	00 - FF	00
D054	(Not display)	00 - FF	00
D055	(Not display)	00 - FF	00
D056	(Not display)	00 - FF	00
D057	(Not display)	00 - FF	00
D058	(Not display)	00 - FF	00
D059	(Not display)	00 - FF	00
D060	(Not display)	00 - FF	00
D061	(Not display)	00 - FF	00
D062	(Not display)	00 - FF	00
D063	(Not display)	00 - FF	00
D064	(Not display)	00 - FF	00
D065	(Not display)	00 - FF	00
D066	(Not display)	00 - FF	00
D067	(Not display)	00 - FF	00
D068	(Not display)	00 - FF	00
D069	(Not display)	00 - FF	00

Item No.	Item name	Variable range	Setting value
D070	(Not display)	00 - FF	00
D071	(Not display)	00 - FF	00
D072	(Not display)	00 - FF	00
D073	(Not display)	00 - FF	00
D074	(Not display)	00 - FF	00
D075	(Not display)	00 - FF	00
D076	(Not display)	00 - FF	00
D077	(Not display)	00 - FF	00
D078	(Not display)	00 - FF	00
D079	(Not display)	00 - FF	00
D080	(Not display)	00 - FF	00
D081	(Not display)	00 - FF	00
D082	(Not display)	00 - FF	00
D083	(Not display)	00 - FF	00
D084	(Not display)	00 - FF	00
D085	(Not display)	00 - FF	00
D086	(Not display)	00 - FF	00
D087	(Not display)	00 - FF	00
D088	(Not display)	00 - FF	00
D089	(Not display)	00 - FF	00
D090	(Not display)	00 - FF	00
D091	(Not display)	00 - FF	00
D092	(Not display)	00 - FF	00
D093	(Not display)	00 - FF	00
D094	(Not display)	00 - FF	00
D095	(Not display)	00 - FF	00
D096	(Not display)	00 - FF	00
D097	(Not display)	00 - FF	00
D098	(Not display)	00 - FF	00
D099	(Not display)	00 - FF	00
D100	(Not display)	00 - FF	00
D101	(Not display)	00 - FF	00
D102	(Not display)	00 - FF	00
D103	(Not display)	00 - FF	00
D104	(Not display)	00 - FF	00
D105	(Not display)	00 - FF	00
D106	(Not display)	00 - FF	00
D107	(Not display)	00 - FF	00
D108	(Not display)	00 - FF	00
D109	(Not display)	00 - FF	00
D110	(Not display)	00 - FF	00
D111	(Not display)	00 - FF	00
D112	(Not display)	00 - FF	00
D113	(Not display)	00 - FF	00
D114	(Not display)	00 - FF	00
D115	(Not display)	00 - FF	00
D116	(Not display)	00 - FF	00
D117	(Not display)	00 - FF	00
D118	(Not display)	00 - FF	00
D119	(Not display)	00 - FF	00

Item No.	Item name	Variable range	Setting value
D120	(Not display)	00 - FF	00
D121	(Not display)	00 - FF	00
D122	(Not display)	00 - FF	00
D123	(Not display)	00 - FF	00
D124	(Not display)	00 - FF	00
D125	(Not display)	00 - FF	00
D126	(Not display)	00 - FF	00
D127	(Not display)	00 - FF	00
D128	(Not display)	00 - FF	00
D129	(Not display)	00 - FF	00
D130	(Not display)	00 - FF	00
D131	(Not display)	00 - FF	00
D132	(Not display)	00 - FF	00
D133	(Not display)	00 - FF	00
D134	(Not display)	00 - FF	00
D135	(Not display)	00 - FF	00
D136	(Not display)	00 - FF	00
D137	(Not display)	00 - FF	00
D138	(Not display)	00 - FF	00
D139	(Not display)	00 - FF	00
D140	(Not display)	00 - FF	00
D141	(Not display)	00 - FF	00
D142	(Not display)	00 - FF	00
D143	(Not display)	00 - FF	00
D144	(Not display)	00 - FF	00
D145	(Not display)	00 - FF	00
D146	(Not display)	00 - FF	00
D147	(Not display)	00 - FF	00
D148	(Not display)	00 - FF	00
D149	(Not display)	00 - FF	00
D150	(Not display)	00 - FF	00
D151	(Not display)	00 - FF	00
D152	(Not display)	00 - FF	00
D153	(Not display)	00 - FF	00
D154	(Not display)	00 - FF	00
D155	(Not display)	00 - FF	00
D156	(Not display)	00 - FF	00
D157	(Not display)	00 - FF	00
D158	(Not display)	00 - FF	00
D159	(Not display)	00 - FF	00
D160	(Not display)	00 - FF	00
D161	(Not display)	00 - FF	00
D162	(Not display)	00 - FF	00
D163	(Not display)	00 - FF	00
D164	(Not display)	00 - FF	00
D165	(Not display)	00 - FF	00
D166	(Not display)	00 - FF	00
D167	(Not display)	00 - FF	00
D168	(Not display)	00 - FF	00
D169	(Not display)	00 - FF	00

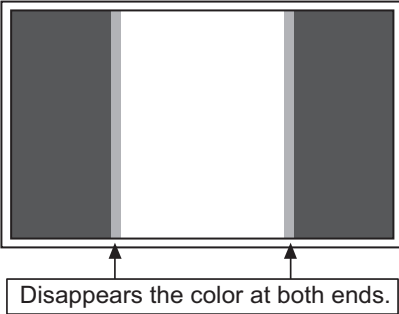
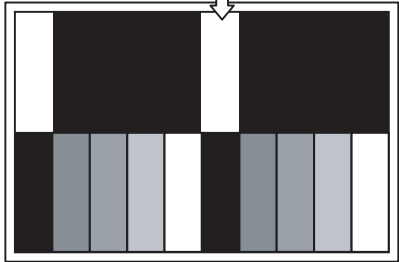
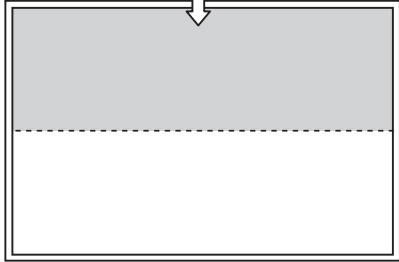
Item No.	Item name	Variable range	Setting value
D170	(Not display)	00 - FF	00
D171	(Not display)	00 - FF	00
D172	(Not display)	00 - FF	00
D173	(Not display)	00 - FF	00
D174	(Not display)	00 - FF	00
D175	(Not display)	00 - FF	00
D176	(Not display)	00 - FF	00
D177	(Not display)	00 - FF	00
D178	(Not display)	00 - FF	00
D179	(Not display)	00 - FF	00
D180	(Not display)	00 - FF	00
D181	(Not display)	00 - FF	00
D182	(Not display)	00 - FF	00
D183	(Not display)	00 - FF	00
D184	(Not display)	00 - FF	00
D185	(Not display)	00 - FF	00
D186	(Not display)	00 - FF	00
D187	(Not display)	00 - FF	00

4.6.5 MAIN CPU SYETEM SETTING (*Fixed values)

Item No.	Item name	Variable range	Setting value
Z001	(Not display)	00 - FF	00
Z002	(Not display)	00 - FF	00
Z003	(Not display)	00 - FF	00
Z004	(Not display)	00 - FF	00
Z005	(Not display)	00 - FF	00
Z006	(Not display)	00 - FF	00
Z007	(Not display)	00 - FF	00
Z008	(Not display)	00 - FF	00
Z009	(Not display)	00 - FF	00
Z010	(Not display)	00 - FF	00

4.7 ADJUSTMENT PROCEDURE

4.7.1 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
625i A-D OFFSET	Remote control unit Signal generator		[1.ADJUST] S001: PREPARE (Adjustment setting mode change) S008: 5i CB OF(625i cb offset) S009: 5i CR OF(625i cr offset) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	(1) Receive a 625i component ramp pattern signal. (2) Set PICTURE MODE to " STANDARD ". (3) Set ZOOM to " FULL ". (4) Set COLOUR TEMP. to " NORMAL ". (5) Select " 1.ADJUST " from the SERVICE MODE. (6) Set < S030 > (R DRIVE), < S031 > (G DRIVE) and < S032 > (B DRIVE) to " 133 ". (7) Set < S001 > (adjustment setting mode change) to set " 8 " and it change to the 625i A-D offset adjustment setting mode. (8) Adjust < S008 > (625i Cb offset) and < S009 > (625i Cr offset) to lose the gap (red line, green line and blue line) which appears at both ends of a white part at the centre of the screen. (9) Set < S001 > to set " 0 " and it change to the normal mode. (10) Press the [MUTING] key to memoirize the set value.
				
1125i (50Hz) BRIGHTNESS	Remote control unit Signal generator		[1.ADJUST] S001: PREPARE (Adjustment setting mode change) S012: HD BL(1125i brightness) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	(1) Receive a 1125i (50Hz) gray scale pattern signal. (2) Set PICTURE MODE to " STANDARD ". (3) Set ZOOM to " FULL ". (4) Set COLOUR TEMP. to " NORMAL ". (5) Select " 1.ADJUST " from the SERVICE MODE. (6) Set < S030 > (R DRIVE), < S031 > (G DRIVE) and < S032 > (B DRIVE) to " 133 ". (7) Set < S001 > (adjustment setting mode change) to set the values " 12 " and it change to the 1125i black level adjustment setting mode. (8) Adjust < S012 > (1125i brightness) to set the 0% black part in the upper half of the screen to be brightest. (9) Set < S001 > to set " 0 " and it change to the normal mode. (10) Press the [MUTING] key to memoirize the set value.
				
1125i (50Hz) A-D OFFSET	Remote control unit Signal generator		[1.ADJUST] S001: PREPARE (Adjustment setting mode change) S013: HD CB OF(1125i cb offset) S014: HD CR OF(1125i cr offset) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	(1) Receive a 1125i (50Hz) 30% all white pattern signal. (2) Set PICTURE MODE to " STANDARD ". (3) Set ZOOM to " FULL ". (4) Set COLOUR TEMP. to " NORMAL ". (5) Select " 1.ADJUST " from the SERVICE MODE. (6) Set < S030 > (R DRIVE), < S031 > (G DRIVE) and < S032 > (B DRIVE) to " 133 ". (7) Set < S001 > (adjustment setting mode change) to set " 13 " and it change to the 1125i A-D offset adjustment setting mode. (8) Adjust < S013 > (1125i Cb offset) to minimize the blue noise in the upper half of the screen. (9) Set < S014 > (1125i Cr offset) to minimize the blue noise in the upper half of the screen. (10) Set < S001 > to set " 0 " and it change to the normal mode. (11) Press the [MUTING] key to memoirize the set value.
				

Item	Measuring instrument	Test point	Adjustment part	Description
SUB SCREEN A-D OFFSET	Remote control unit		[1.ADJUST] S001: PREPARE (Adjustment setting mode change)	(1) Set PICTURE MODE to " STANDARD ". (2) Set ZOOM" to " FULL ". (3) Set COLOUR TEMP. to " NORMAL ". (4) Set MULTI SCREEN to " 2 pictures ". (5) Receive a PAL 30% all white pattern signal on the Right screen. At the same time, set the Left screen in VIDEO-1 mode (No signal). (6) Select " 1.ADJUST " from the SERVICE MODE. (7) Set < S030 > (R DRIVE), < S031 > (G DRIVE) and < S032 > (B DRIVE) to " 133 ". (8) Set < S001 > (adjustment setting mode change) to set "17" and it change to the sub screen A-D offset adjustment setting mode. (9) Adjust < S016 > (Sub screen cb offset) to minimize the blue noise in the upper half of the screen. If you select an adjustment item < S016 >, then the screen automatically turn to twin pictures mode. (10) Adjust < S017 > (Sub screen cr offset) to minimize the red noise in the upper half of the screen. (11) Readjust < S016 > and < S017 > to set the upper half of the screen to be the blackest. (12) Set < S001 > to set "0" and it change to the normal mode. (13) Press the [MUTING] key to memoirize the set value.
	Signal generator		S016: RT CB OF (Sub screen cb offset) S017: RT CR OF (Sub screen cr offset) S030: R DRIVE(Red drive) S031: G DRIVE(Green drive) S032: B DRIVE(Blue drive)	
Set the 0% block part to be brightest.				
WHITE BALANCE (HIGHLIGHT)	Remote control unit		[1.ADJUST] S030: R DRIVE (Red drive) S031: G DRIVE (Green drive) S032: B DRIVE (Blue drive)	(1) Receive a PAL 75% all white signal. (2) Set PICTURE MODE to " STANDARD ". (3) Set ZOOM to " FULL ". (4) Set COLOUR TEMP. to " NORMAL ". (5) Select " 1.ADJUST " from the SERVICE MODE. (6) Adjust to Keep one of < S030 > (Red drive), < S031 > (Green drive) or < S032 > (Blue drive) unchanged, then lower the other two so that the all-white screen is equally white throughout. NOTE: Set one or more of < S030 >, < S031 >, and < S032 > to " 85 ". (7) Check that white balance is properly tracked from low light to high light. If the white balance tracking is deviated, adjust to correct it. (8) Press the [MUTING] key to memoirize the set value.

SECTION 5 TROUBLESHOOTING

5.1 SELF CHECK FEATURE

5.1.1 OUTLINE

This unit comes with the "Self check" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I²C bus and the various control lines connected to the main microcomputer.

5.1.2 HOW TO ENTER THE SELF CHECK MODE

Before entering the SERVICE MODE, confirm that the setting of VCR/TV/ DVD switch is at the "TV" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.

- (1) Press the **[INFORMATION]** key and **[MUTING]** key simultaneously, then enter the SERVICE MODE.
- (2) Press the **[2]** key SELF CHECK MODE.
- (3) Press the **[RED]** key to enter Page 2 of the SELF CHECK MODE.

*Use the **[GREEN]** key to toggle between Page 1 and Page 2.

NOTE:

When a number key other than the **[2]** key is pressed in the SERVICE MODE screen, the other relevant screen may be displayed.

This is not used in the SELF CHECK MODE. Press the **[MENU]** key to return to the MAIN MENU SCREEN.

5.1.3 HOW TO EXIT THE SELF CHECK MODE

To Save Failure History:

Turn off the power by unplugging the AC power cord plug when in the Self check display mode.

To Clear (Reset) Failure History:

Turn off the power by pressing the **[POWER]** key on the remote control unit when in the Self check display mode.

5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

5.1.5 POINTS TO NOTE WHEN USING THE SELF CHECK FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be diagnosed as "Abnormal" and displayed and counted as "NG".

- (1) Temporary defective transmissions across circuits due to pulse interruptions
- (2) Misalignment in the on/off timing of power for I²C bus (VCC) when turning on/off the main power.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start Self check check only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis results.

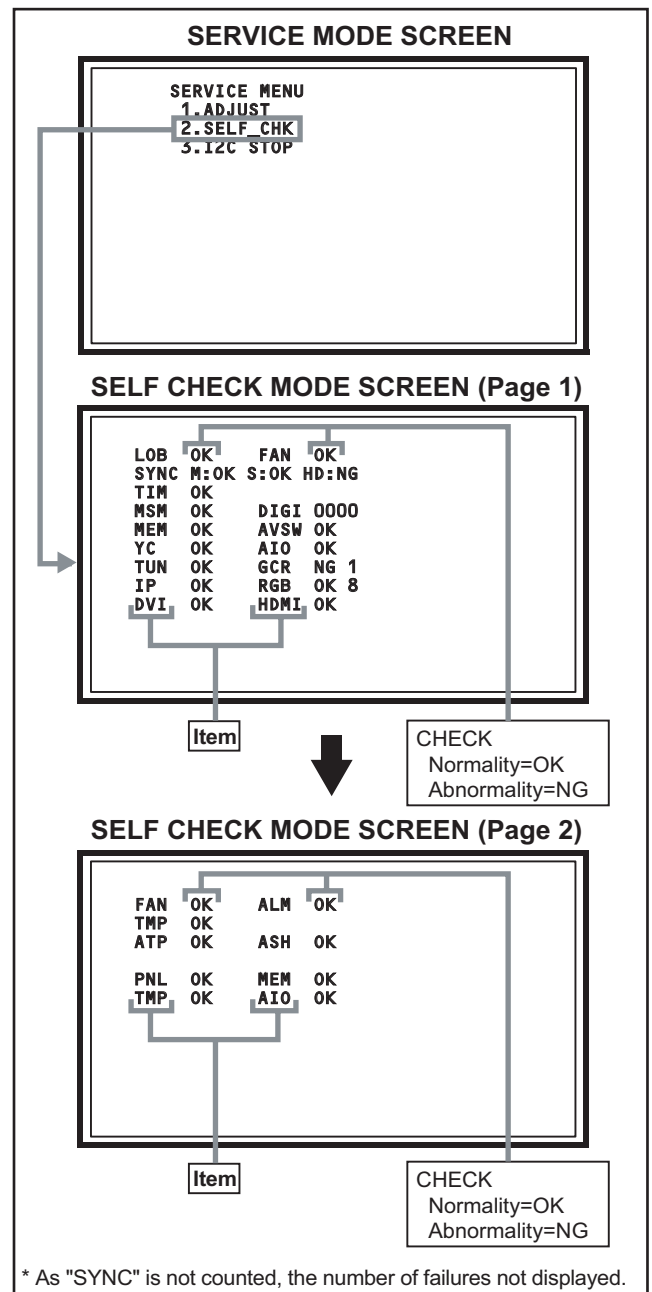


Fig.1

5.1.6 DETAILS

Self check is performed for the following items:

< Page 1 of screen >

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Low bias line short protection	LOB	Confirmation of operation of the low bias (2.5V / 3.3V / 5V / 9V) protection circuit. Q9801 , Q9822 [REGULATOR PWB]	LB_PRO	Detection starts 3 seconds after the power is turned on. If error continues between 400ms the power is turned off.
Abnormal rise of temperature in audio circuit	FAN	Confirmation of the temperature of audio circuit. TH6661 [ANALOG SIGNAL PWB]	SDA	Detection starts 3 seconds after the power is turned on. If the temperature of 90°C is detected for 3 seconds the power is turned off.
Presence of sync signal	SYNC	Confirmation of presence of video sync signal. M : Main sync signal S : Sub sync signal HD : Component sync signal IC201 [ANALOG SIGNAL PWB]	SDA	Confirmation of presence of sync signal in video signal.
AC power input	TIM	Not used.	---	---
Main CPU communication	MSM	Not used.	---	---
Digital tuner	DIGI	Not used.	---	---
Main memory	MEM	Confirmation of reply of ACK signal which uses I ² C communication. IC7602 [DIGITAL SIGNAL PWB]	SDA	Same as above.
AV select switch	AVSW	Same as above. IC301 , IC501 [ANALOG SIGNAL PWB]	SDA	Same as above.
3 dimensions YC separator	YC	Not used.	---	---
Multi sound process	AIO	Not used.	---	---
RF tuner	TUN	Confirmation of reply of ACK signal which uses I ² C communication. TU3002 [RECEIVER PWB]	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.
Ghost reduction	GCR	Not used.	---	---
DIST process	IP	Confirmation of reply of ACK signal which uses I ² C communication. IC3001 [DIGITAL SIGNAL PWB]	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.
RGB process	RGB	Confirmation of reply of ACK signal which uses I ² C communication. IC3001 [DIGITAL SIGNAL PWB]	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.
DVI (Digital communication)	DVI	Not used.	---	---
Digital input	HDMI	Confirmation of reply of ACK signal which uses I ² C communication.	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Fan lock	FAN	Not used.	---	---
Abnormal of operation of PANEL	ALM	Not used.	---	---
Abnormal rise of temperature in PANEL	TMP	Not used.	---	---
Abnormal rise of temperature in audio circuit	ATP	Not used.	---	---
Short circuit detection of audio circuit	ASH	Not used.	---	---
Panel communication	PNL	Not used.	---	---
Sub memory	MEM	Not used.	---	---
Temp. sensor	TMP	Not used.	---	---
Audio control	AIO	Confirmation of reply of ACK signal which uses I ² C communication. IC6521 [ANALOG SIGNAL PWB]	SDA	If it checks whenever I ² C communication is performed and no reply of ACK signal an error will be counted.

5.1.7 METHOD OF DISPLAY WHEN A RASTER IS NOT OUTPUT

In the state where a raster is not output by breakdown of the set, an error is displayed by blink of the POWER LED.

Type of error	POWER LED flash cycle
Low bias line short protection	Green turnig on and off at 1 second intervals.
Abnormal rise of temperature in audio circuit	Green turnig on and off at 0.1 second intervals.

< Explanation of operation >

If error is detected, the power is turned off.

Shortly after a power is turned off, POWER LED will be blinked.

Power cannot be turned on until the power cord takes out and inserts, after a power is turned off.



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(No.YA299)



Printed in Japan
VPT

PARTS LIST

CAUTION

- The parts identified by the Δ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	$\pm 10\%$	$\pm 20\%$	$\pm 30\%$	+30% -10%	+50% -10%	+80% -20%	+100% -0%

CONTENTS

USING P.W. BOARD & REMOTE CONTROL UNIT	3-2
EXPLODED VIEW PARTS LIST -1	3-3
EXPLODED VIEW -1	3-4
EXPLODED VIEW PARTS LIST -2	3-5
EXPLODED VIEW -2	3-6
PRINTED WIRING BOARD PARTS LIST	3-7
ANALOG SIGNAL P.W. BOARD ASS'Y (SFL-1113A-U2)	3-7
CONNECTOR P.W. BOARD ASS'Y (SFL-4111A-U2)	3-11
FRONT CONTROL P.W. BOARD ASS'Y (SFL-7111A-U2)	3-12
FRONT LED P.W. BOARD ASS'Y (SFL-8113A-U2)	3-12
POWER P.W. BOARD ASS'Y (SFL-9033A-U2)	3-12
REGULATOR P.W. BOARD ASS'Y (SFL-9133A-U2)	3-14
DIGITAL SIGNAL P.W. BOARD ASS'Y (LCA10557-70A) (SFL-0D237A)	3-15
RECEIVER P.W. BOARD ASS'Y (SFL0F203A-U2)	3-21
REMOTE CONTROL UNIT PARTS LIST (RM-C1813H-1C)	3-22
PACKING	3-23
PACKING PARTS LIST	3-23

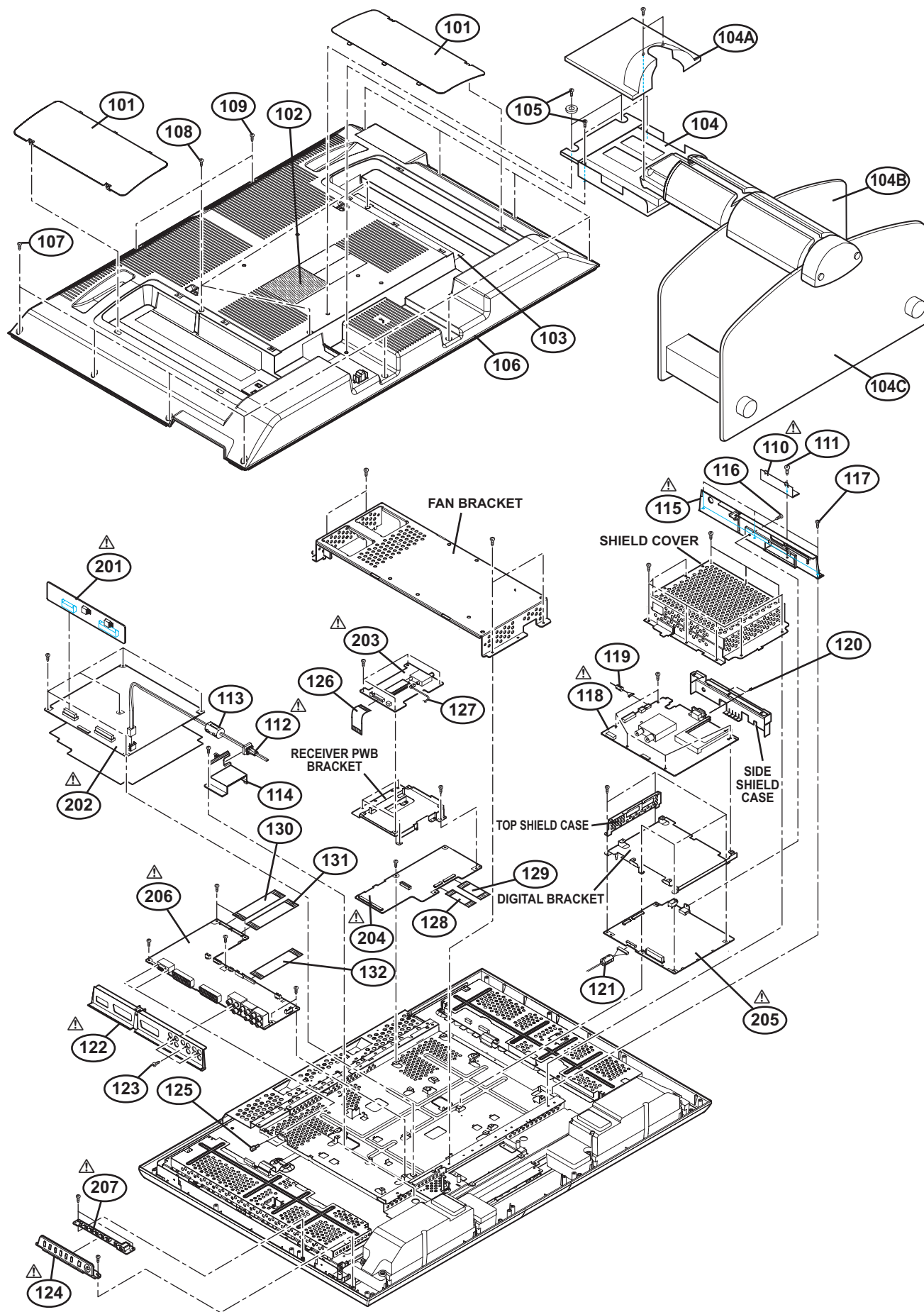
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	P.W.B ASS'Y No.
ANALOG SIGNAL P.W.B	SFL-1113A-U2
CONNECTOR P.W.B	SFL-4111A-U2
FRONT CONTROL P.W.B	SFL-7111A-U2
FRONT LED P.W.B	SFL-8113A-U2
POWER P.W.B	SFL-9033A-U2
REGULATOR P.W.B	SFL-9133A-U2
DIGITAL SIGNAL P.W.B	LCA10557-70A (SFL-0D237A)
RECEIVER P.W.B	SFL0F203A-U2
REMOTE CONTROL UNIT	RM-C1813H-1C

EXPLODED VIEW PARTS LIST -1

△	Ref.No.	Part No.	Part Name	Description	Local
	101	LC21923-001A-U	JACK COVER	(x2)	
	102	LC21990-002A-U	RATING LABEL		
	103	LC32749-005A-H	OPERATION SHEET		
	104	GA10137-001A-U	STAND ASSY		
	104A	GA20108-001A-U	STAND COVER		
	104B	GA10145-001A-U	GLASS SHELF		
	104C	GA10144-001A-U	GLASS BASE		
	105	QYSPSPD5014MA	SCREW	M5 x 14mm(x4)	
	106	LC12450-001A-U	REAR COVER		
	107	QYSBSFG4016MA	TAP SCREW	M4 x 16mm(x10)	
	108	QYSBSF3010MA	TAP SCREW	M3 x 10mm(x3)	
	109	QYSPSPD3008MA	SCREW	M3 x 8mm(x2)	
△	110	LC32760-002A-HK	SERVICE COVER		
	111	QYSBSF3010MA	TAP SCREW	M3 x 10mm	
△	112	QMPN260-170-JC	POWER CORD(EK)	1.7m BLACK	
	113	QQR0942-001	CORE FILTER		
	114	LC33103-002A-OK	POWER CORD HOLDER		
△	115	LC21734-003A-U	TUNER BASE		
	116	QYSPSP3008MA	SCREW	M3 x 8mm	
	117	QYSPSPD3008MA	SCREW	M3 x 8mm(x3)	
△	118	QAU0420-001	DIGITAL TUNER UNIT		
	119	QQR0490-001	NOISE FILTER		
	120	QNB0036-001	HEX SCREW	(x2)	
	121	QQR0490-001	NOISE FILTER		
△	122	LC21735-002A-U	TERMINAL BASE		
	123	QYSBSF3010MA	TAP SCREW	M3 x 10mm(x3)	
△	124	LC33216-001A-U	CONTROL ASSY		
	125	QNB0036-001	HEX SCREW	(x2)	
	126	QUQ105-4006AL-E	FFC WIRE	40pin 6cm	
	127	WJX0029-001A-E	F CABLE		
	128	QUQ105-3004AA-E	FFC WIRE	30pin 4cm	
	129	QUQ105-5004AA-E	FFC WIRE	50pin 4cm	
	130	QUQ105-5009AE-E	FFC WIRE	50pin 9cm	
	131	QUQ105-5009AE-E	FFC WIRE	50pin 9cm	
	132	QUQK12-2106CH-E	FFC WIRE	21pin 6cm	
△	201	SFL-9133A-U2	REGULATOR PWB		
△	202	SFL-9033A-U2	POWER PWB		
△	203	SFL0F203A-U2	RECEIVER PWB		
△	204	SFL-4111A-U2	CONNECTOR PWB		
△	205	LCA10557-70A	DIGITAL SIGNAL PWB		
△	206	SFL-1113A-U2	ANALOG SIGNAL PWB		
△	207	SFL-7111A-U2	FRONT CONTROL PWB		

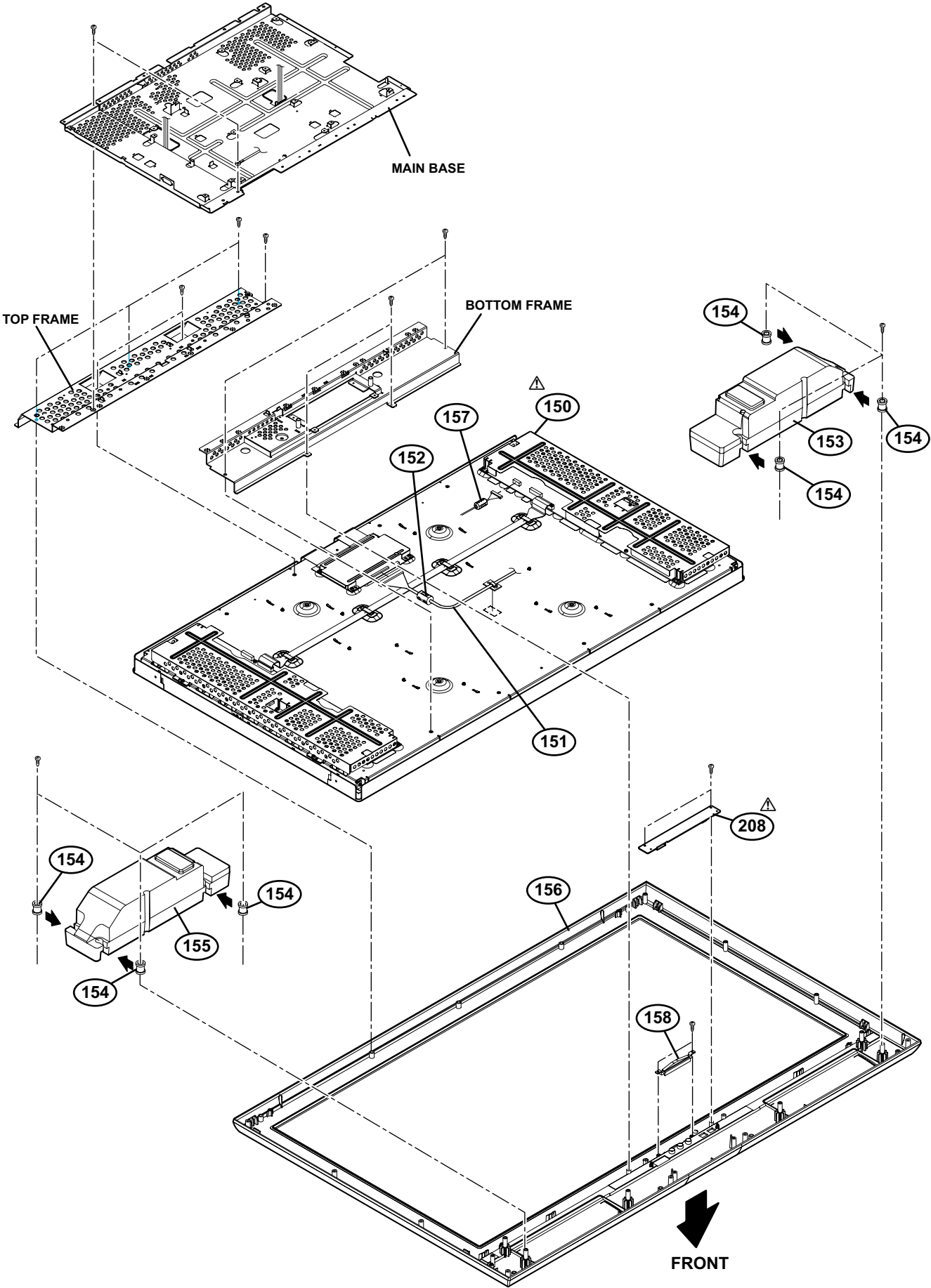
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2

△	Ref.No.	Part No.	Part Name	Description	Local
△	150	QLD0375-001-JUK	LCD PANEL UNIT		
	151	WJW0021-002A-E	DIGITAL(LVDS) CABLE		
	152	QQR0490-001	NOISE FILTER		
	153	LC41913-004A-C	SPEAKER ASSY		
	154	LC40226-005A-H	SPACER	(x6)	
	155	LC41913-003A-C	SPEAKER ASSY		
	156	LC12449-001A-U	FRONT PANEL ASSY		
	157	QQR0490-001	NOISE FILTER		
	158	LC33125-001B-HK	LED LENS		
△	208	SFL-8113A-U2	FRONT LED PWB		

EXPLODED VIEW -2



PRINTED WIRING BOARD PARTS LIST

ANALOG SIGNAL P.W. BOARD ASS'Y (SFL-1113A-U2)

△Ref No.	Part No.	Part Name	Description	Local
IC201	TB1305FG	IC		
IC202	SN74CBT3253PW-X	IC		
IC301	AN15852A	IC		
IC501	CXA2069Q	IC		
IC502	MM1510XN-X	IC		
IC503	MM1508XN-X	IC		
IC711	CXA1875AM-X	IC		
IC801	TB1274BFG	IC		
IC802	TC90A69AF-X	IC		
IC902	TA48M033F-X	IC		
IC6001	NJM2777M-X	IC		
IC6201	PQ20WZ11-X	IC		
IC6521	NJW1164M-W	IC		
IC6551	RC4558D-X	IC		
IC6552	RC4558D-X	IC		
IC6621	LM393DR-X	IC		
IC6661	TDA8925ST/N1	IC		
Q301	2SC3837K/NP/-X	TRANSISTOR		
Q302	2SC3837K/NP/-X	TRANSISTOR		
Q303	2SC3837K/NP/-X	TRANSISTOR		
Q307	2SA1530A/QR/-X	TRANSISTOR		
Q402	SSM3K17FU-X	MOS FET		
Q403	SSM3K17FU-X	MOS FET		
Q404	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Q405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Q507	2SA1530A/QR/-X	TRANSISTOR		
Q508	2SA1530A/QR/-X	TRANSISTOR		
Q510	2SA1530A/QR/-X	TRANSISTOR		
Q511	UN2226-X	DIGI TRANSISTOR		
Q512	2SA1530A/QR/-X	TRANSISTOR		
Q513	UMX1N-W	PAIR TRANSISTOR		
Q801	2SA1530A/QR/-X	TRANSISTOR		
Q802	2SA1530A/QR/-X	TRANSISTOR		
Q804	2SC3928A/QR/-X	TRANSISTOR		
Q805	2SC3928A/QR/-X	TRANSISTOR		
Q806	2SC3928A/QR/-X	TRANSISTOR		
Q807	2SC3928A/QR/-X	TRANSISTOR		
Q808	2SC3928A/QR/-X	TRANSISTOR		
Q809	2SC3928A/QR/-X	TRANSISTOR		
Q810	2SA1530A/QR/-X	TRANSISTOR		
Q851	2SA1530A/QR/-X	TRANSISTOR		
Q853	2SC3928A/QR/-X	TRANSISTOR		
Q854	2SC3928A/QR/-X	TRANSISTOR		
Q855	2SA1530A/QR/-X	TRANSISTOR		
Q858	2SC3928A/QR/-X	TRANSISTOR		
Q859	2SA1530A/QR/-X	TRANSISTOR		
Q862	2SC3928A/QR/-X	TRANSISTOR		
Q863	2SC3928A/QR/-X	TRANSISTOR		
Q901	BA90BC0FP-X	IC		
Q902	2SC3074/OY/-X	TRANSISTOR		
Q903	2SC3928A/QR/-X	TRANSISTOR		
Q2051	UN2226-X	DIGI TRANSISTOR		
Q2052	UN2226-X	DIGI TRANSISTOR		
Q2053	UN2110-X	DIGI TRANSISTOR		
Q2151	UN2226-X	DIGI TRANSISTOR		
Q2152	UN2226-X	DIGI TRANSISTOR		
Q2153	UN2110-X	DIGI TRANSISTOR		
Q2171	2SC3928A/QR/-X	TRANSISTOR		
Q2172	2SC3928A/QR/-X	TRANSISTOR		
Q2173	UN2212-X	DIGI TRANSISTOR		
Q2451	UN2226-X	DIGI TRANSISTOR		
Q2452	UN2226-X	DIGI TRANSISTOR		
Q2453	UN2110-X	DIGI TRANSISTOR		
Q6301	2SC3928A/QR/-X	TRANSISTOR		
Q6302	2SC3928A/QR/-X	TRANSISTOR		
Q6421	2SC3928A/QR/-X	TRANSISTOR		
Q6431	2SA1530A/QR/-X	TRANSISTOR		
Q6521	2SC3928A/QR/-X	TRANSISTOR		
Q6522	2SC3928A/QR/-X	TRANSISTOR		
Q6523	2SA1530A/QR/-X	TRANSISTOR		
Q6531	2SC3928A/QR/-X	TRANSISTOR		
Q6532	2SC3928A/QR/-X	TRANSISTOR		
Q6533	2SC3928A/QR/-X	TRANSISTOR		
Q6534	2SA1530A/QR/-X	TRANSISTOR		
Q6538	2SC3928A/QR/-X	TRANSISTOR		
Q6539	2SC3928A/QR/-X	TRANSISTOR		
Q6661	UN2112-X	DIGI TRANSISTOR		
Q6662	2SC3928A/QR/-X	TRANSISTOR		
Q6663	UN2212-X	DIGI TRANSISTOR		
Q6673	2SA1530A/QR/-X	TRANSISTOR		
D201	1SS355-X	SI DIODE		
D541	UDZS10B-X	Z DIODE		
D551	UDZS10B-X	Z DIODE		
D901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
D902	1SS355-X	SI DIODE		
D903	PTZ11B-X	Z DIODE		
D904	PTZ6.8B-X	Z DIODE		
D905	MA8030/H/-X	Z DIODE		
D2001	UDZS10B-X	Z DIODE		
D2002	UDZS10B-X	Z DIODE		
D2003	UDZS10B-X	Z DIODE		
D2004	UDZS10B-X	Z DIODE		
D2005	UDZS10B-X	Z DIODE		
D2101	UDZS10B-X	Z DIODE		
D2102	UDZS10B-X	Z DIODE		
D2103	UDZS10B-X	Z DIODE		
D2104	UDZS10B-X	Z DIODE		
D2105	UDZS10B-X	Z DIODE		
D2106	UDZS10B-X	Z DIODE		
D2107	UDZS10B-X	Z DIODE		
D2201	UDZS10B-X	Z DIODE		
D2202	UDZS10B-X	Z DIODE		
D2203	UDZS10B-X	Z DIODE		
D2204	UDZS10B-X	Z DIODE		
D2205	UDZS10B-X	Z DIODE		
D2206	UDZS10B-X	Z DIODE		
D2207	UDZS10B-X	Z DIODE		
D2301	UDZS10B-X	Z DIODE		
D2302	UDZS10B-X	Z DIODE		
D2303	UDZS10B-X	Z DIODE		
D2304	UDZS10B-X	Z DIODE		
D2305	UDZS10B-X	Z DIODE		
D2601	UDZS10B-X	Z DIODE		
D2602	UDZS10B-X	Z DIODE		
D2603	UDZS10B-X	Z DIODE		
D2604	UDZS10B-X	Z DIODE		
D2605	UDZS10B-X	Z DIODE		
D6001	1SS355-X	SI DIODE		
D6002	1SS355-X	SI DIODE		
D6201	1SS355-X	SI DIODE		
D6431	1SS355-X	SI DIODE		
D6432	1SS355-X	SI DIODE		
D6433	1SS355-X	SI DIODE		
D6501	1SS355-X	SI DIODE		
D6502	1SS355-X	SI DIODE		
D6503	1SS355-X	SI DIODE		
D6504	1SS355-X	SI DIODE		
D6601	UDZS6.2B-X	Z DIODE		
D6663	UDZS3.3B-X	Z DIODE		
D6664	1SS355-X	SI DIODE		
D6671	UDZS20B-X	Z DIODE		
D6672	UDZS20B-X	Z DIODE		
D6673	UDZS20B-X	Z DIODE		
D6674	UDZS20B-X	Z DIODE		
D6681	1SS355-X	SI DIODE		
D6682	1SS355-X	SI DIODE		
D6683	1SS355-X	SI DIODE		
C201	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C202	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C203	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C204	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C205	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C206	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C207	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C208	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C210	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C211	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C212	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C213	NCB31CK-103X	C CAPACITOR	0.01uF 16V K	
C215	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C216	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C217	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C218	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C219	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C220	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C221	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C223	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C224	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C225	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C301	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C302	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C303	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
C304	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
C305	NRSA02J-221X	MG RESISTOR	220Ω 1/10W J	
C306	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C307	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C308	NDC31HJ-560X	C CAPACITOR	56pF 50V J	
C309	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C310	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C313	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C852	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C314	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C853	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C315	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C854	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C316	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C855	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C317	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C856	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C318	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C857	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C319	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C858	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C320	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C859	NCB31AK-474X	C CAPACITOR	0.47uF 10V K
C321	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C860	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C322	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C861	NDC31HJ-681X	C CAPACITOR	680pF 50V J
C323	NEX61CM-686X	E CAPACITOR	68uF 16V M	C862	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C324	NCB21CK-105X	C CAPACITOR	1uF 16V K	C863	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C325	NCB21CK-105X	C CAPACITOR	1uF 16V K	C864	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C326	NCB21CK-105X	C CAPACITOR	1uF 16V K	C865	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C327	NCB21CK-105X	C CAPACITOR	1uF 16V K	C866	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C328	NCB21CK-105X	C CAPACITOR	1uF 16V K	C868	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C329	NCB21CK-105X	C CAPACITOR	1uF 16V K	C869	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C330	NCB21CK-105X	C CAPACITOR	1uF 16V K	C870	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C341	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C872	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C342	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C873	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C343	NCB21CK-105X	C CAPACITOR	1uF 16V K	C874	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C346	NCB21CK-105X	C CAPACITOR	1uF 16V K	C875	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C349	NCB11AK-106X	C CAPACITOR	10uF 10V K	C876	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C372	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C877	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C382	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C878	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C392	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C879	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C405	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	C880	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C406	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	C881	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C501	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C882	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C502	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C883	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C503	NENA1EM-106X	BP E CAPACITOR	10uF 25V M	C884	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C505	NENA1EM-106X	BP E CAPACITOR	10uF 25V M	C885	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C508	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C886	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C887	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C513	NCB21CK-105X	C CAPACITOR	1uF 16V K	C888	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C514	NCB21CK-105X	C CAPACITOR	1uF 16V K	C889	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C515	NCB21CK-105X	C CAPACITOR	1uF 16V K	C890	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C516	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C891	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C518	NEHL1AM-107X	E CAPACITOR	100uF 10V M	C892	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C519	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C894	NDC31HJ-180X	C CAPACITOR	18pF 50V J
C520	NCB21CK-105X	C CAPACITOR	1uF 16V K	C895	NDC31HJ-680X	C CAPACITOR	68pF 50V J
C521	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C901	NEHM1HM-105X	E CAPACITOR	1uF 50V M
C522	NEHL1AM-107X	E CAPACITOR	100uF 10V M	C902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C523	NCB21CK-105X	C CAPACITOR	1uF 16V K	C903	NCB31CK-154X	C CAPACITOR	0.15uF 16V K
C527	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C904	NCB11AK-106X	C CAPACITOR	10uF 10V K
C561	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C905	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C562	QENC1CM-476Z	BP E CAPACITOR	47uF 16V M	C906	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C591	NCB21CK-105X	C CAPACITOR	1uF 16V K	C912	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C592	NCB21CK-105X	C CAPACITOR	1uF 16V K	C913	NEX51CM-335X	E CAPACITOR	3.3uF 16V M
C593	NCB21CK-105X	C CAPACITOR	1uF 16V K	C914	NEX50JM-156X	E CAPACITOR	15uF 6.3V M
C594	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C915	NEHM1EM-336X	E CAPACITOR	33uF 25V M
C595	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C916	NEX50JM-156X	E CAPACITOR	15uF 6.3V M
C711	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C2001	NCB11AK-106X	C CAPACITOR	10uF 10V K
C712	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C2005	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C801	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2006	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C802	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2008	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C803	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2009	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C804	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C2010	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C805	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2011	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C806	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2051	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C807	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C2052	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C808	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2053	NCB31CK-105X	C CAPACITOR	1uF 16V K
C809	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C2101	NCB11AK-106X	C CAPACITOR	10uF 10V K
C810	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2105	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C811	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2106	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C812	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2107	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C813	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C2108	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C814	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2109	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C815	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2110	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C816	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2151	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C817	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2152	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C818	NEHL1HM-106X	E CAPACITOR	10uF 50V M	C2153	NCB31CK-105X	C CAPACITOR	1uF 16V K
C819	NDC31HJ-100X	C CAPACITOR	10pF 50V J	C2201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C820	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	C2202	NCB11AK-106X	C CAPACITOR	10uF 10V K
C821	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2203	NCB11AK-106X	C CAPACITOR	10uF 10V K
C822	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C2204	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C823	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	C2205	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C824	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2206	NCB31CK-105X	C CAPACITOR	1uF 16V K
C825	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C2207	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C826	NEHL1EM-226X	E CAPACITOR	22uF 25V M	C2208	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C827	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M	C2301	NCB11AK-106X	C CAPACITOR	10uF 10V K
C829	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2302	NCB31CK-105X	C CAPACITOR	1uF 16V K
C830	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2303	NCB31CK-105X	C CAPACITOR	1uF 16V K
C831	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2306	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C832	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2307	NCB31CK-105X	C CAPACITOR	1uF 16V K
C833	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2308	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C834	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	C2309	NCB31CK-105X	C CAPACITOR	1uF 16V K
C835	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2310	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C850	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C2311	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C851	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C2401	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C2402	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6664	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C2451	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C6665	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C2452	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C6666	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C2453	NCB31CK-105X	C CAPACITOR	1uF 16V K	C6667	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C2601	NCB31CK-105X	C CAPACITOR	1uF 16V K	C6668	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C2602	NCB31CK-105X	C CAPACITOR	1uF 16V K	C6669	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J
C2603	NCB31CK-105X	C CAPACITOR	1uF 16V K	C6670	QFV1HJ-474Z	MF CAPACITOR	0.47uF 50V J
C6001	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C6671	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C6002	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C6672	QETN1EM-477Z	E CAPACITOR	470uF 25V M
C6003	NEHL1AM-107X	E CAPACITOR	100uF 10V M	C6673	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6004	NEHL1AM-107X	E CAPACITOR	100uF 10V M	C6674	QETN1EM-477Z	E CAPACITOR	470uF 25V M
C6005	NEHL1HM-105X	E CAPACITOR	1uF 50V M	C6675	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6006	NEHL1HM-105X	E CAPACITOR	1uF 50V M	C6676	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C6007	QETN1AM-108Z	E CAPACITOR	1000uF 10V M	C6677	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C6008	NEHL1HM-106X	E CAPACITOR	10uF 50V M	C6678	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J
C6009	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C6679	QFV1HJ-474Z	MF CAPACITOR	0.47uF 50V J
C6010	NDC31HJ-331X	C CAPACITOR	330pF 50V J	C6680	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C6011	NDC31HJ-331X	C CAPACITOR	330pF 50V J	C6681	NDC31HJ-561X	C CAPACITOR	560pF 50V J
C6201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6682	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6202	NEHL1EM-336X	E CAPACITOR	33uF 25V M	C6683	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6203	NEHL1EM-336X	E CAPACITOR	33uF 25V M	C6684	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6204	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	C6685	QETN1EM-477Z	E CAPACITOR	470uF 25V M
C6205	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C6687	QETN1EM-477Z	E CAPACITOR	470uF 25V M
C6301	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C6688	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C6302	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C6693	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C6421	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R201	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C6431	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C6505	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6510	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6517	NDC31HJ-100X	C CAPACITOR	10pF 50V J	R206	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6518	NDC31HJ-100X	C CAPACITOR	10pF 50V J	R208	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6521	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R209	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6522	NCB31HK-332X	C CAPACITOR	3300pF 50V K	R210	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6523	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	R211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C6525	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R213	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6526	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R214	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6527	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R215	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6528	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6529	NCB31HK-332X	C CAPACITOR	3300pF 50V K	R217	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6530	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	R218	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6532	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R219	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6533	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R220	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6534	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R232	NRS12BJ-151W	MG RESISTOR	150Ω 1/2W J
C6535	NEHL1HM-105X	E CAPACITOR	1uF 50V M	R302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6536	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6537	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R334	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C6538	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R335	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C6539	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R336	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C6540	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R372	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6541	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R374	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C6542	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	R375	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
C6543	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R382	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6544	NEHL1HM-105X	E CAPACITOR	1uF 50V M	R384	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C6545	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R385	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
C6546	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R392	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6551	NEHL1HM-105X	E CAPACITOR	1uF 50V M	R394	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C6552	NEHL1HM-105X	E CAPACITOR	1uF 50V M	R395	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
C6553	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R402	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C6554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R403	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C6555	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R409	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C6556	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R410	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C6557	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R501	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6559	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R502	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6561	NEHL1HM-105X	E CAPACITOR	1uF 50V M	R503	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6562	NEHL1HM-225X	E CAPACITOR	2.2uF 50V M	R504	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6563	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R505	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6564	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R508	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6567	NCB11EK-105X	C CAPACITOR	1uF 25V K	R509	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6568	NCB11EK-105X	C CAPACITOR	1uF 25V K	R510	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6585	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6586	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R512	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6601	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R513	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6602	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R514	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6605	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R516	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6606	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R517	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6621	NCB31HK-332X	C CAPACITOR	3300pF 50V K	R518	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6622	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R521	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6623	NEHL1EM-226X	E CAPACITOR	22uF 25V M	R522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6624	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R523	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6625	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R524	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6626	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R527	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6627	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R529	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6628	NEHL1EM-226X	E CAPACITOR	22uF 25V M	R530	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6629	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R531	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6630	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R532	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6631	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R534	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C6632	NCB31HK-332X	C CAPACITOR	3300pF 50V K	R538	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
C6661	NCB11EK-105X	C CAPACITOR	1uF 25V K	R539	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6662	NCB11EK-105X	C CAPACITOR	1uF 25V K				
C6663	NCB31HK-104X	C CAPACITOR	0.1uF 50V K				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R540	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	R853	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R541	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R854	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R542	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R855	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R543	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R856	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R544	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R859	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R545	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R860	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R552	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R861	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R553	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R862	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R554	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R863	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R556	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R864	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R561	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R865	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R563	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	R866	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R564	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R867	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R565	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R869	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R566	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R873	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R567	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R874	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R568	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R876	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R572	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R877	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R573	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R879	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R575	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R883	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R576	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R884	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R577	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R885	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R578	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R886	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R579	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R887	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R582	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R888	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R587	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R889	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R588	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R893	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R589	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R901	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R590	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R902	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R591	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R903	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R592	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R904	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R593	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R907	NRS12BJ-0R0W	MG RESISTOR	0Ω 1/2W J
R594	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R908	NRS12BJ-471W	MG RESISTOR	470Ω 1/2W J
R595	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R917	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R596	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2001	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R597	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2002	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2003	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2004	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2005	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2006	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2051	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R2052	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R718	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2053	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R719	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R2054	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R720	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2055	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R721	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2056	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R722	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R2057	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R724	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2058	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R801	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R2101	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R802	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R2102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R803	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R2104	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R804	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R2105	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R805	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R2106	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R806	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R2151	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R807	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	R2152	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R808	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2153	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R809	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2154	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R810	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R2155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R811	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R2156	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R812	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R2157	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R813	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R2158	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R814	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R2159	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R815	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R2160	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R816	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R2161	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R817	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R2163	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R818	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R2171	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R819	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R2172	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R820	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2173	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R821	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R2201	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R822	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2202	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R823	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R824	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R2204	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R825	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2205	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R826	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2301	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R827	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R2302	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R828	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2303	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R829	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2304	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R830	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R2305	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R831	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R832	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R833	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R2451	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R834	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2452	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R835	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2453	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R836	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R2454	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R837	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R2455	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R838	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2456	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R839	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R2457	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R840	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2458	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R851	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R2601	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R852	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R2602	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R2603	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J	R6623	NRSA63J-392X	MG RESISTOR	3.9kΩ	1/16W J
R2604	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J	R6624	QRJ146J-102X	UNF C RESISTOR	1kΩ	1/4W J
R2605	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J	R6625	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R2606	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R6626	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J
R6001	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	R6627	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J
R6002	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	R6629	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J
R6003	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R6630	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J
R6004	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J	R6631	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R6005	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	R6632	NRSA63J-392X	MG RESISTOR	3.9kΩ	1/16W J
R6006	QRL039J-330	OMF RESISTOR	33Ω	3W J	R6633	NRSA63J-151X	MG RESISTOR	150Ω	1/16W J
R6007	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R6634	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R6008	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R6661	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R6201	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J	R6662	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R6202	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	R6663	NRSA63J-393X	MG RESISTOR	39kΩ	1/16W J
R6203	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J	R6664	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R6204	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J	R6665	NRSA63J-393X	MG RESISTOR	39kΩ	1/16W J
R6205	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	R6666	QRK126J-5R6X	UNF C RESISTOR	5.6Ω	1/2W J
R6301	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R6667	QRK126J-220X	UNF C RESISTOR	22Ω	1/2W J
R6302	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R6668	QRK126J-5R6X	UNF C RESISTOR	5.6Ω	1/2W J
R6303	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R6669	QRK126J-220X	UNF C RESISTOR	22Ω	1/2W J
R6304	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R6670	NRSA63J-153X	MG RESISTOR	15kΩ	1/16W J
R6305	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R6671	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R6306	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R6673	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J
R6307	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R6674	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R6308	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R6675	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J
R6309	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R6676	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R6310	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R6677	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R6409	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R6680	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R6423	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	R6684	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J
R6424	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	R6685	NRSA63J-563X	MG RESISTOR	56kΩ	1/16W J
R6425	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	R6686	NRSA63J-153X	MG RESISTOR	15kΩ	1/16W J
R6431	NRSA63J-563X	MG RESISTOR	56kΩ	1/16W J	R6691	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J
R6432	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J	RB802	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R6515	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J	L807	NQR0499-001X	FERRITE BEADS		
R6516	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J	L808	NQR0499-001X	FERRITE BEADS		
R6517	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	L809	NQR0499-001X	FERRITE BEADS		
R6518	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J	L851	NQL092K-6R8X	P COIL	6.8uH	K
R6519	NRSA63J-152X	MG RESISTOR	1.5kΩ	1/16W J	L852	NQL092K-6R8X	P COIL	6.8uH	K
R6520	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	L853	NQL092K-6R8X	P COIL	6.8uH	K
R6521	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	L854	NQL092M-270X	P COIL	27uH	M
R6522	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	L855	NQL904J-560X	COIL	56uH	J
R6523	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J	L861	NQL914K-220X	COIL	22uH	K
R6524	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	L862	NQL914K-101X	COIL	100uH	K
R6525	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	L863	NQL914K-101X	COIL	100uH	K
R6526	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J	L864	NQL914K-101X	COIL	100uH	K
R6527	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	L865	NQL914K-220X	COIL	22uH	K
R6528	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	L866	NQL914K-220X	COIL	22uH	K
R6529	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J	L867	NQL914K-220X	COIL	22uH	K
R6530	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	L902	NQL52EM-220X	COIL	22uH	M
R6531	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	L903	NQL52EM-220X	COIL	22uH	M
R6532	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J	L904	NQL52EM-220X	COIL	22uH	M
R6533	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	L6661	QQL28AK-560	COIL	56uH	K
R6534	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	L6662	QQL28AK-560	COIL	56uH	K
R6535	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	CN000H	QGF1201C2-21	CONNECTOR	FFC/FPC (1-21)	
R6536	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	CN0011	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
R6537	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	CN0012	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)	
R6538	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	J2001	QNZ0463-001	21P CONNECTOR	EXT-1	
R6539	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	J2002	QNZ0463-001	21P CONNECTOR	EXT-2	
R6540	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	J2003	QNZ0726-001	AV JACK	EXT-3	
R6541	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	J2004	QNN0650-001	PIN JACK	EXT-4	
R6542	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	J2005	QNN0649-001	PIN JACK	AUDIO IN/OUT	
R6543	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	J2007	QNZ0561-001	D CONNECTOR	RGB IN	
R6551	NRSA63J-153X	MG RESISTOR	15kΩ	1/16W J	K6601	NQR0499-002X	FERRITE BEADS		
R6552	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	K6602	NQR0499-002X	FERRITE BEADS		
R6553	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	K6661	NQR0499-002X	FERRITE BEADS		
R6554	NRSA63J-153X	MG RESISTOR	15kΩ	1/16W J	K6662	NQR0499-002X	FERRITE BEADS		
R6555	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	K6663	NQR0499-002X	FERRITE BEADS		
R6556	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	K6664	NQR0499-002X	FERRITE BEADS		
R6557	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	△TH6661	NAD0035-471X	P THERMISTOR	470Ω	
R6558	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J	X201	NAX0787-001X	CRYSTAL		
R6559	NRSA63J-561X	MG RESISTOR	560Ω	1/16W J	X801	NAX0621-001X	CRYSTAL	16.200MHz	
R6560	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J					
R6563	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J					
R6564	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R6567	NRSA63J-124X	MG RESISTOR	120kΩ	1/16W J					
R6568	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R6569	NRSA63J-823X	MG RESISTOR	82kΩ	1/16W J					
R6577	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J					
R6578	NRSA63J-392X	MG RESISTOR	3.9kΩ	1/16W J					
R6579	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J					
R6580	NRSA63J-392X	MG RESISTOR	3.9kΩ	1/16W J					
R6601	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J					
R6602	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J					
R6603	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R6605	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J					
R6606	NRSA63J-333X	MG RESISTOR	33kΩ	1/16W J					
R6607	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R6617	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J					
R6621	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J					
R6622	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J					

△Ref No.	Part No.	Part Name	Description Local
D4904	MA111-X	SI DIODE	
C4210	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M
C4211	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M
C4303	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C4304	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C4305	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C4306	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C4801	NBZ0017-106X	SP E CAPACITOR	10uF 25V M
C4802	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C4804	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4805	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4807	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4808	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4810	NBZ0008-107X	SP E CAPACITOR	100uF 6.3V M
C4901	NBZ0017-106X	SP E CAPACITOR	10uF 25V M
C4902	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C4904	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4905	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4907	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4908	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4910	NBZ0008-107X	SP E CAPACITOR	100uF 6.3V M
C4911	NEHMOJM-107X	E CAPACITOR	100uF 6.3V M
C4914	NBZ0008-107X	SP E CAPACITOR	100uF 6.3V M
R4301	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R4302	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R4303	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R4304	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R4305	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R4306	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R4307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4308	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4405	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4406	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4407	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4408	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4409	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4410	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4506	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4801	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R4803	NRSA63J-824X	MG RESISTOR	820kΩ 1/16W J
R4804	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D
R4805	NRSA63D-104X	MG RESISTOR	100kΩ 1/16W D
R4806	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R4807	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4808	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R4809	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R4810	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R4813	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R4901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R4902	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R4903	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R4904	NRSA63D-203X	MG RESISTOR	20kΩ 1/16W D
R4905	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D
R4906	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R4907	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R4908	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R4909	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R4910	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D
R4911	NRSA63D-222X	MG RESISTOR	2.2kΩ 1/16W D
R4913	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R4914	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R4915	NRS181J-181X	MG RESISTOR	180Ω 1/8W J
R4921	NRS12BJ-0R0W	MG RESISTOR	0Ω 1/2W J
L4802	NQL71EM-150X	COIL	15uH M
L4902	NQL71EM-150X	COIL	15uH M
CN0001	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)
CN0002	QGF0508F1-30X	CONNECTOR	FFC/FPC (1-30)
CN000T	QGF0540C1-40X	CONNECTOR	FFC/FPC (1-40)
CN1011	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)
CN1012	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)

FRONT CONTROL P.W. BOARD ASS'Y (SFL-7111A-U2)

△Ref No.	Part No.	Part Name	Description Local
D7011	UDZS6.2B-X	Z DIODE	
C7011	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C7012	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
R7011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local
R7013	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R7014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R7015	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R7018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7701	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7702	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R7703	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7704	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
L7001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L7002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
J7001	QMS3004-C01	H.P.JACK	
K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
S7701	QSW1131-001Z	TACT SWITCH	CH-
S7702	QSW1131-001Z	TACT SWITCH	CH+
S7703	QSW1131-001Z	TACT SWITCH	MENU
S7704	QSW1131-001Z	TACT SWITCH	TV/AV
S7705	QSW1131-001Z	TACT SWITCH	VOL+
S7706	QSW1131-001Z	TACT SWITCH	VOL-
S7707	QSW1131-001Z	TACT SWITCH	POWER

FRONT LED P.W. BOARD ASS'Y (SFL-8113A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC8752	GP1UM261RKVF	IR DETECT UNIT	
Q8701	UN2212-X	DIGI TRANSISTOR	
Q8702	UN2110-X	DIGI TRANSISTOR	
Q8703	UN2212-X	DIGI TRANSISTOR	
Q8704	UN2110-X	DIGI TRANSISTOR	
Q8710	UN2212-X	DIGI TRANSISTOR	
Q8711	UN2212-X	DIGI TRANSISTOR	
D8701	SML72420C-T	LED	POWER
D8705	SELU5E20C-T	LED	ILLUMINATION
D8708	MA8068-X	Z DIODE	
D8709	MA8068-X	Z DIODE	
C8752	NEHL1CM-476X	E CAPACITOR	47uF 16V M
R8711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R8712	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R8713	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R8714	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R8721	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R8722	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R8724	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8726	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8755	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J

POWER P.W. BOARD ASS'Y (SFL-9033A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC9141	BA50BC0FP-X	IC	
△IC9211	FA5500AN-W	IC	
IC9501	F9222L-F219	IC	
△IC9541	UTCTL431-T	IC	
IC9602	M62320FP-X	IC	
IC9603	PQ1CZ38M2Z-X	IC	
IC9901	MP1593DN-X	IC	
Q9021	2SC3928A/QR/-X	TRANSISTOR	
Q9211	2SK3522-01-F1	POWER MOS FET	
Q9212	2SD601A/QR/-X	TRANSISTOR	
Q9213	IMD3A-W	DIGI TRANSISTOR	
Q9215	2SD601A/QR/-X	TRANSISTOR	
Q9216	UN2212-X	DIGI TRANSISTOR	
Q9251	UN2213-X	DIGI TRANSISTOR	
Q9252	UN2212-X	DIGI TRANSISTOR	
Q9501	2SD601A/QR/-X	TRANSISTOR	
Q9502	2SK2865-X	POWER MOS FET	
Q9503	2SD601A/QR/-X	TRANSISTOR	
Q9504	2SK2018-01S-W	POWER MOS FET	
Q9506	UN2213-X	DIGI TRANSISTOR	
Q9541	UN2212-X	DIGI TRANSISTOR	
Q9602	2SB1188/QR/-W	TRANSISTOR	
Q9603	UN2212-X	DIGI TRANSISTOR	
Q9606	2SC3928A/QR/-X	TRANSISTOR	
Q9901	2SD601A/QR/-X	TRANSISTOR	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
D9021	MA111-X	SI DIODE		C9553	QEHR1EM-477Z	E CAPACITOR	470uF 25V M
D9111	S1WB/A/60-4101	BRIDGE DIODE		C9606	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
△D9201	D25XB60	BRIDGE DIODE		C9608	QEHR1EM-107Z	E CAPACITOR	100uF 25V M
D9202	MA111-X	SI DIODE		C9609	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
D9205	MA3082/M/-X	Z DIODE		C9610	NDC31HJ-680X	C CAPACITOR	68pF 50V J
D9211	YG972S6R	SI DIODE		C9611	NDC31HJ-680X	C CAPACITOR	68pF 50V J
D9213	MA111-X	SI DIODE		C9902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D9214	MA111-X	SI DIODE		C9903	QECR1CM-477Z	E CAPACITOR	470uF 16V M
D9215	D1FL20U-X	SI DIODE		C9904	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
D9251	MA3100/M/-X	Z DIODE		C9907	NCB31EK-273X	C CAPACITOR	0.027uF 25V K
D9252	MA111-X	SI DIODE		C9908	QEHR2AM-106Z	E CAPACITOR	10uF 100V M
D9253	MA111-X	SI DIODE		C9909	QEHR1HM-106Z	E CAPACITOR	10uF 50V M
D9254	D1FL20U-X	SI DIODE		C9910	QEHR1HM-476Z	E CAPACITOR	47uF 50V M
D9301	FME-220A	SB DIODE		C9912	QEHR1CM-477Z	E CAPACITOR	470uF 16V M
D9302	FME-220A	SB DIODE		C9913	NCJ41HK-335X-U	C CAPACITOR	
D9501	MA8220/M/-X	Z DIODE		C9914	QTNC1HM-106Z	E CAPACITOR	10uF 50V M
D9502	MA8110/H/-X	Z DIODE		C9917	NCB31HK-222X	C CAPACITOR	2200pF 50V K
D9503	D1FL20U-X	SI DIODE					
D9504	D1FL20U-X	SI DIODE		△R9001	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K
D9505	MA8220/M/-X	Z DIODE		R9021	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
D9507	D1FL20U-X	SI DIODE		R9022	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
D9508	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	R9101	QRZ0216-4R7	UNF WW RESISTOR	4.7Ω 7W K
D9509	SD883-04-X	SB DIODE		R9141	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J
D9512	D1FS4-X	SB DIODE		R9142	QRX01GJ-R82	MF RESISTOR	0.82Ω 1W J
D9514	PTZ27B-X	Z DIODE		△R9199	QRZ9046-685Z	C RESISTOR	6.8MΩ 1/2W K
D9515	PTZ27B-X	Z DIODE		△R9201	QRZ9055-8R2	FUSI RESISTOR	8.2Ω 2W K
D9542	FCH20A10	SB DIODE		R9203	NRS12BJ-681W	MG RESISTOR	680Ω 1/2W J
D9543	FCH20A10	SB DIODE		R9211	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J
D9546	FCH20A10	SB DIODE		R9212	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J
D9609	MA111-X	SI DIODE		R9213	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J
D9610	EC30HA04-X	SB DIODE		R9214	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J
D9901	EC30HA04-X	SB DIODE		R9215	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
D9902	MA111-X	SI DIODE		R9216	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
D9903	EC30HA04-X	SB DIODE		R9217	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
D9905	D1FL20U-X	SI DIODE		R9218	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D
D9906	PTZ11B-X	Z DIODE		R9219	NRS12BJ-223W	MG RESISTOR	22kΩ 1/2W J
D9907	MTZJ16B-T2	Z DIODE		R9220	QRM059J-R22	MP RESISTOR	0.22Ω 5W J
D9908	MTZJ16B-T2	Z DIODE		R9221	QRM059J-R22	MP RESISTOR	0.22Ω 5W J
D9909	D1FL20U-X	SI DIODE		R9222	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
				R9223	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
△C9001	QFZ9072-105	MM CAPACITOR	1uF AC250V K	R9224	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
△C9002	QFZ9072-105	MM CAPACITOR	1uF AC250V K	R9225	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J
△C9011	QCZ9071-102	C CAPACITOR	1000pF AC400V M	R9226	NRS12BJ-334W	MG RESISTOR	330kΩ 1/2W J
△C9013	QCZ9071-102	C CAPACITOR	1000pF AC400V M	R9227	NRS12BJ-394W	MG RESISTOR	390kΩ 1/2W J
△C9101	QCZ9078-472	C CAPACITOR	4700pF AC250V M	R9228	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
△C9102	QCZ9078-472	C CAPACITOR	4700pF AC250V M	R9229	NRSA63D-274X	MG RESISTOR	270kΩ 1/16W D
△C9103	QCZ9078-472	C CAPACITOR	4700pF AC250V M	R9233	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J
C9111	QEZ0709-106	E CAPACITOR	10uF 450V M	R9236	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J
C9141	QECR1CM-477Z	E CAPACITOR	470uF 16V M	R9237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9142	QEHR1AM-337Z	E CAPACITOR	330uF 10V M	R9238	NRS12BJ-220W	MG RESISTOR	22Ω 1/2W J
C9143	QEHR1CM-107Z	E CAPACITOR	100uF 16V M	R9239	NRS12BJ-1R0W	MG RESISTOR	1Ω 1/2W J
C9196	QCZ9071-471	C CAPACITOR	470pF AC400V K	R9251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
△C9197	QCZ9071-102	C CAPACITOR	1000pF AC400V M	R9253	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
△C9198	QCZ9071-102	C CAPACITOR	1000pF AC400V M	R9254	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
△C9201	QCZ9078-222	C CAPACITOR	2200pF AC250V M	R9255	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
△C9203	QCZ9078-222	C CAPACITOR	2200pF AC250V M	R9256	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
△C9204	QCZ9078-222	C CAPACITOR	2200pF AC250V M	R9257	NRS12BJ-102W	MG RESISTOR	1kΩ 1/2W J
△C9205	QCZ9078-222	C CAPACITOR	2200pF AC250V M	R9301	QRT039J-1R2	MF RESISTOR	1.2Ω 3W J
C9211	QFZ0222-105	MM CAPACITOR	1uF 450V K	R9302	QRT039J-1R2	MF RESISTOR	1.2Ω 3W J
C9212	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R9501	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C9213	NCB21CK-105X	C CAPACITOR	1uF 16V K	R9502	QRL039J-103	OMF RESISTOR	10kΩ 3W J
C9214	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	R9503	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
C9215	QEHR1VM-476Z	E CAPACITOR	47uF 35V M	R9504	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
C9216	QEZ0650-227	E CAPACITOR	220uF 450V M	R9505	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
C9218	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R9506	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C9219	QCZ0340-331	C CAPACITOR	330pF 2kV K	R9507	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C9221	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R9508	QRT029J-R56	MF RESISTOR	0.56Ω 2W J
C9251	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	R9509	QRM059J-R27	MP RESISTOR	0.27Ω 5W J
C9252	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9510	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9301	QECR1EM-687Z	E CAPACITOR	680uF 25V M	R9511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C9302	QECR1EM-687Z	E CAPACITOR	680uF 25V M	R9512	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C9501	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9513	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C9502	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9514	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C9503	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9515	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C9504	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R9516	QRT029J-2R2	MF RESISTOR	2.2Ω 2W J
C9505	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R9517	NRS12BJ-332W	MG RESISTOR	3.3kΩ 1/2W J
C9506	NCB31HK-331X	C CAPACITOR	330pF 50V K	R9518	QRK126J-271X	UNF C RESISTOR	270Ω 1/2W J
C9507	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R9519	NRSA02J-180X	MG RESISTOR	18Ω 1/10W J
C9508	NCB11AK-335X	C CAPACITOR	3.3uF 10V K	R9520	QRE121J-105Y	C RESISTOR	1MΩ 1/2W J
C9509	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	R9521	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C9510	QEHR2AM-107Z	E CAPACITOR	100uF 100V M	R9525	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C9511	QFZ0209-393	MPP CAPACITOR	0.039uF	R9526	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C9512	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	R9527	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
C9520	NCB31HK-331X	C CAPACITOR	330pF 50V K	R9529	QRL039J-681	OMF RESISTOR	680Ω 3W J
C9541	QECQ1VM-128	E CAPACITOR	1200uF 35V M	R9536	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
C9544	QECQ1VM-128	E CAPACITOR	1200uF 35V M	R9541	NRSA63J-684X	MG RESISTOR	680kΩ 1/16W J
C9545	QECQ1VM-128	E CAPACITOR	1200uF 35V M	R9542	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J
C9550	QECQ1VM-128	E CAPACITOR	1200uF 35V M	R9543	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9551	NCB11HK-104X	C CAPACITOR	0.1uF 50V K	R9544	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D
C9552	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R9545	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D

△Ref No. Part No. Part Name Description Local

R9546	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R9548	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
R9549	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9552	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9562	NRS12BJ-223W	MG RESISTOR	22kΩ 1/2W J
R9563	NRS12BJ-6R8W	MG RESISTOR	6.8Ω 1/2W J
R9602	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9615	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R9616	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R9620	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D
R9624	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R9625	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
R9629	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9631	NRSA02J-332X	MG RESISTOR	3.3kΩ 1/10W J
R9632	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9635	NRS12BJ-221W	MG RESISTOR	220Ω 1/2W J
R9637	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9641	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9643	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9646	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9648	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9651	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9653	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9657	NRS12BJ-6R8W	MG RESISTOR	6.8Ω 1/2W J
R9658	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R9659	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R9660	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R9661	NRS12BJ-6R8W	MG RESISTOR	6.8Ω 1/2W J
R9663	NRS12BJ-681W	MG RESISTOR	680Ω 1/2W J
R9901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9902	NRSA63D-104X	MG RESISTOR	100kΩ 1/16W D
R9903	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9904	NRSA63D-184X	MG RESISTOR	180kΩ 1/16W D
R9905	QRF126J-222X	UNF C RESISTOR	2.2kΩ 1/2W J
R9906	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R9907	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R9908	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R9909	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9913	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9923	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

L9141	NQL52EN-4R7X	COIL	4.7uH N
L9201	QQR1662-001	CHOKE COIL	
L9202	QQR1513-001	CHOKE COIL	
L9541	NQL71EM-150X	COIL	15uH M
L9542	NQL52EM-470X	COIL	47uH M
L9601	NQL98EM-101X	COIL	100uH M
L9902	NQR0562-001X	CHOKE COIL	
L9903	NQR0562-001X	CHOKE COIL	
L9904	NQL63EM-470X	COIL	47uH M
△T9121	QAL0425-002	POWER TRANSF	
△T9501	QQS0347-001	SW TRANSF	
△T9502	QQS0347-001	SW TRANSF	

CN0006	QGB2501J1-07	CONNECTOR	B-B (1-7)
△CN0007	QGB2501J1-10	CONNECTOR	B-B (1-10)
CN000H	QGF1201C2-21	CONNECTOR	FFC/FPC (1-21)
△CP9121	QMFZ052-2R0-E	FUSE	2A AC250V
△CP9211	QMFZ043-2R0Z-J1	FUSE	2A AC250V
△CP9301	QMFZ034-5R0Z-J1	FUSE	5A 125V
△CP9302	QMFZ034-5R0Z-J1	FUSE	5A 125V
△F9001	QMF5AD2-6R3-J1	FUSE	6.3A AC250V
K9001	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
K9111	NQR0499-001X	FERRITE BEADS	
K9211	QQR0621-002Z	FERRITE BEADS	
K9212	QQR0621-002Z	FERRITE BEADS	
K9501	NQR0499-002X	FERRITE BEADS	
K9502	NQR0499-002X	FERRITE BEADS	
K9503	NQR0499-002X	FERRITE BEADS	
K9504	NQR0499-002X	FERRITE BEADS	
K9505	NQR0499-002X	FERRITE BEADS	
K9508	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
K9509	NQR0499-002X	FERRITE BEADS	
K9541	NQR0499-001X	FERRITE BEADS	
△LF9001	QQR1514-001	LINE FILTER	
△LF9002	QQR1467-001	LINE FILTER	
△LF9003	QQR1514-001	LINE FILTER	
△PC9541	PS2581AL2/QW/-W	PHOTO COUPLER	
△PC9542	PS2581AL2/QW/-W	PHOTO COUPLER	
△RY9021	QSK0162-001	RELAY	
△RY9201	QSK0163-001	RELAY	
△VA9001	QAF0060-621	VARISTOR	620V

REGULATOR P.W. BOARD ASS'Y (SFL-9133A-U2)

△Ref No. Part No. Part Name Description Local

IC9801	MP1593DN-X	IC	
IC9821	MP1593DN-X	IC	
IC9841	MP1593DN-X	IC	
IC9861	MP1593DN-X	IC	
IC9881	LM393DR-X	IC	
Q9801	2SC3928A/QR/-X	TRANSISTOR	
Q9821	2SC3928A/QR/-X	TRANSISTOR	
D9802	EC30HA04-X	SB DIODE	
D9803	MA111-X	SI DIODE	
D9805	PTZ6.8B-X	Z DIODE	
D9822	EC30HA04-X	SB DIODE	
D9823	PTZ6.8B-X	Z DIODE	
D9824	MA111-X	SI DIODE	
D9825	EC30HA04-X	SB DIODE	
D9842	EC30HA04-X	SB DIODE	
D9843	PTZ3.9B-X	Z DIODE	
D9861	MA111-X	SI DIODE	
D9862	EC30HA04-X	SB DIODE	
D9863	PTZ3.9B-X	Z DIODE	
D9864	EC30HA04-X	SB DIODE	
D9881	UDZS9.1B-X	Z DIODE	
D9882	MA111-X	SI DIODE	
C9803	NCJ41HK-335X-U	C CAPACITOR	
C9804	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9805	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C9806	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9807	NCB31HK-332X	C CAPACITOR	3300pF 50V K
C9810	NEHM1HM-105X	E CAPACITOR	1uF 50V M
C9821	NCJ41HK-335X-U	C CAPACITOR	
C9822	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
C9823	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9825	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C9826	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9827	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9830	NBZ0008-107X	SP E CAPACITOR	100uF 6.3V M
C9831	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9843	NCJ41HK-335X-U	C CAPACITOR	
C9844	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9845	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C9846	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9847	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C9848	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9861	NCJ41HK-335X-U	C CAPACITOR	
C9862	NCB31HK-822X	C CAPACITOR	8200pF 50V K
C9864	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C9865	NDC31HJ-121X	C CAPACITOR	120pF 50V J
C9866	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9867	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C9868	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C9881	NEHM1HM-105X	E CAPACITOR	1uF 50V M
C9882	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C9883	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C9884	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
R9803	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9804	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R9805	NRVA02D-473X	CMF RESISTOR	47kΩ 1/10W D
R9806	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D
R9807	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9808	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R9809	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R9810	NRSA63J-183X	MG RESISTOR	10kΩ 1/16W J
R9812	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9821	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9822	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R9823	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R9824	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9825	NRSA63D-473X	MG RESISTOR	47kΩ 1/16W D
R9826	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9827	NRSA63D-124X	MG RESISTOR	120kΩ 1/16W D
R9828	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R9829	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R9830	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R9831	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9841	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9843	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9844	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R9845	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R9846	NRSA63D-223X	MG RESISTOR	22kΩ 1/16W D
R9847	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R9848	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
R9849	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9861	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9862	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9863	NRSA63J-824X	MG RESISTOR	820kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R9864	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	Q0310	HN1C01F/Y/-X	PAIR TRANSISTOR	
R9865	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	Q0311	2SC3928A/QR/-X	TRANSISTOR	
R9866	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D	Q1001	UN2213-X	DIGI TRANSISTOR	
R9867	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	Q1003	2SC3928A/QR/-X	TRANSISTOR	
R9868	NRSA63D-154X	MG RESISTOR	150kΩ 1/16W D	Q1004	2SC3928A/QR/-X	TRANSISTOR	
R9869	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	Q1005	2SK1228-X	MOS FET	
R9881	NRS12BJ-332W	MG RESISTOR	3.3kΩ 1/2W J	Q1006	2SK1228-X	MOS FET	
R9882	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	Q1101	2SC3928A/QR/-X	TRANSISTOR	
R9883	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	Q1103	2SA1530A/QR/-X	TRANSISTOR	
R9884	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	Q1201	2SC3928A/QR/-X	TRANSISTOR	
R9885	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	Q1203	2SA1530A/QR/-X	TRANSISTOR	
R9886	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	Q1301	2SC3928A/QR/-X	TRANSISTOR	
L9802	NQL98EM-150X	COIL	15uH M	Q1303	2SA1530A/QR/-X	TRANSISTOR	
L9822	NQL71EM-150X	COIL	15uH M	Q1401	2SC3928A/QR/-X	TRANSISTOR	
L9823	NQR0562-003X	CHOKE COIL		Q1403	2SA1530A/QR/-X	TRANSISTOR	
L9842	NQL98EM-150X	COIL	15uH M	Q3001	2SC3928A/QR/-X	TRANSISTOR	
L9862	NQL98EM-150X	COIL	15uH M	Q3002	2SA1530A/QR/-X	TRANSISTOR	
CN9806	QGB2501K2-07	CONNECTOR	B-B (1-7)	Q3003	2SC3928A/QR/-X	TRANSISTOR	
CN9807	QGB2501K2-10	CONNECTOR	B-B (1-10)	Q3004	2SA1530A/QR/-X	TRANSISTOR	
				Q4001	2SC3928A/QR/-X	TRANSISTOR	
				Q6501	2SC3928A/QR/-X	TRANSISTOR	
				Q7201	2SA1530A/QR/-X	TRANSISTOR	
				Q7202	2SC3928A/QR/-X	TRANSISTOR	
				Q7203	2SC3928A/QR/-X	TRANSISTOR	
				Q7204	2SC3928A/QR/-X	TRANSISTOR	
				Q7205	2SC3928A/QR/-X	TRANSISTOR	
				Q7206	UN2213-X	DIGI TRANSISTOR	
				Q7207	UN2113-X	TRANSISTOR	
				Q7208	UN2113-X	TRANSISTOR	
				Q7209	UN2113-X	TRANSISTOR	
				Q7501	2SA1162/YG/-X	TRANSISTOR	
				Q7508	DTC114EKA-X	DIGI TRANSISTOR	

DIGITAL SIGNAL P.W. BOARD ASS'Y (LCA10557-70A) (SFL-0D237A)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC0401	SN74AHCT1G32V-X	IC		D1001	EC30HA03L-X	SB DIODE	
IC1001	TC90A92AFG	IC		D1002	EC30HA03L-X	SB DIODE	
IC1002	MM1572FN-X	IC		D2103	1SS355-X	SI DIODE	
IC1003	R1141Q151D-X	IC		D7001	1SS355-X	SI DIODE	
IC1005	ML87V2105TBZ03A	IC		D7003	RB501V-40-X	SB DIODE	
IC1502	NJM2235V-X	IC		D7005	UDZS8.2B-X	Z DIODE	
IC3001	JCC5055A	IC		D7006	UDZS8.2B-X	Z DIODE	
IC3004	TC7MB3257FK-X	IC		D7007	UDZS8.2B-X	Z DIODE	
IC3005	SN74LVC1G08V-X	IC		D7008	UDZS8.2B-X	Z DIODE	
IC3006	SN74LVC2G126T-X	IC		D7009	UDZS8.2B-X	Z DIODE	
IC3007	SN74LVC3G17U-X	IC		D7201	1SS355-X	SI DIODE	
IC3008	R1170H331B-X	IC		D7203	1SS355-X	SI DIODE	
IC3403	S-80928CLNB-G-W	IC		D7501	1SS355-X	SI DIODE	
IC3501	EDD1232AAFA-7A	IC		D7502	1SS355-X	SI DIODE	
IC3502	EDD1232AAFA-7A	IC		D9201	EC30HA04-X	SB DIODE	
IC3503	LP2996MR-X	IC		D9203	PTZ3.9B-X	Z DIODE	
IC4001	JCC5057	IC		D9204	1SS355-X	SI DIODE	
IC4003	AT29LE-26DS6BJ	IC(MICRO C ROM)	(SERVICE)	C0104	NDC31HJ-390X	C CAPACITOR	39pF 50V J
IC4004	ATF256-26DS6BJ	IC	(SERVICE)	C0105	NDC31HJ-330X	C CAPACITOR	33pF 50V J
IC6502	THC63LVD83R-W	IC		C0107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC7001	MN102H60KLH	IC(MCU)		C0109	NCB11AK-106X	C CAPACITOR	10uF 10V K
IC7002	ATF512-26DS6BJ	IC(MICRO C ROM)	(SERVICE)	C0110	NCB11AK-106X	C CAPACITOR	10uF 10V K
IC7003	SN74LVC2G241T-X	IC		C0111	NDC31HJ-820X	C CAPACITOR	82pF 50V J
IC7401	S-80928CLNB-G-W	IC		C0112	NDC31HJ-820X	C CAPACITOR	82pF 50V J
IC7501	SDA6000-B12	IC		C0113	NCB11AK-106X	C CAPACITOR	10uF 10V K
IC7502	S-80828CNCNB-G-W	IC		C0114	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC7503	K4S641632H-UC75	IC		C0115	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC7504	MBV160-26DS6BJ	IC(MICRO C ROM)	(SERVICE)	C0116	NCB11AK-106X	C CAPACITOR	10uF 10V K
IC7505	PQ2L3252MS-X	IC		C0117	NDC31HJ-560X	C CAPACITOR	56pF 50V J
IC7506	CD74HC4053PW-X	IC		C0118	NDC31HJ-151X	C CAPACITOR	150pF 50V J
IC7602	ATF32-26DS6BJ	IC	(SERVICE)	C0204	NDC31HJ-390X	C CAPACITOR	39pF 50V J
IC9201	MP1593DN-X	IC		C0205	NDC31HJ-330X	C CAPACITOR	33pF 50V J
Q0101	2SC3837K/NP/-X	TRANSISTOR		C0206	NDC31HJ-390X	C CAPACITOR	39pF 50V J
Q0102	2SA1022/BC/-X	TRANSISTOR		C0207	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q0104	2SA1022/BC/-X	TRANSISTOR		C0209	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0105	2SC3928A/QR/-X	TRANSISTOR		C0210	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0107	2SA1530A/QR/-X	TRANSISTOR		C0211	NDC31HJ-820X	C CAPACITOR	82pF 50V J
Q0108	2SC3928A/QR/-X	TRANSISTOR		C0212	NDC31HJ-820X	C CAPACITOR	82pF 50V J
Q0109	HN1C01F/Y/-X	PAIR TRANSISTOR		C0213	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0110	HN1C01F/Y/-X	PAIR TRANSISTOR		C0214	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q0201	2SC3837K/NP/-X	TRANSISTOR		C0215	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q0202	2SA1022/BC/-X	TRANSISTOR		C0217	NDC31HJ-560X	C CAPACITOR	56pF 50V J
Q0203	2SC3928A/QR/-X	TRANSISTOR		C0218	NDC31HJ-151X	C CAPACITOR	150pF 50V J
Q0204	2SA1022/BC/-X	TRANSISTOR		C0304	NDC31HJ-390X	C CAPACITOR	39pF 50V J
Q0205	2SC3928A/QR/-X	TRANSISTOR		C0305	NDC31HJ-330X	C CAPACITOR	33pF 50V J
Q0206	2SC3928A/QR/-X	TRANSISTOR		C0306	NDC31HJ-390X	C CAPACITOR	39pF 50V J
Q0207	2SA1530A/QR/-X	TRANSISTOR		C0307	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q0208	2SC3928A/QR/-X	TRANSISTOR		C0309	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0209	HN1C01F/Y/-X	PAIR TRANSISTOR		C0310	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0210	HN1C01F/Y/-X	PAIR TRANSISTOR		C0311	NDC31HJ-820X	C CAPACITOR	82pF 50V J
Q0301	2SC3837K/NP/-X	TRANSISTOR		C0312	NDC31HJ-820X	C CAPACITOR	82pF 50V J
Q0302	2SA1022/BC/-X	TRANSISTOR		C0313	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q0303	2SC3928A/QR/-X	TRANSISTOR		C0314	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q0304	2SA1022/BC/-X	TRANSISTOR		C0315	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q0305	2SC3928A/QR/-X	TRANSISTOR		C0317	NDC31HJ-560X	C CAPACITOR	56pF 50V J
Q0306	2SC3928A/QR/-X	TRANSISTOR		C0318	NDC31HJ-151X	C CAPACITOR	150pF 50V J
Q0307	2SA1530A/QR/-X	TRANSISTOR					
Q0308	2SC3928A/QR/-X	TRANSISTOR					
Q0309	HN1C01F/Y/-X	PAIR TRANSISTOR					

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C0401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1405	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C0519	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C1406	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1001	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1409	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C1004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1411	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C1005	NCB31HK-152X	C CAPACITOR	1500pF 50V K	C1502	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K
C1006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1508	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1009	NDC31HJ-220X	C CAPACITOR	22pF 50V J	C1509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1010	NDC31HJ-180X	C CAPACITOR	18pF 50V J	C1511	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C1011	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	C3004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3006	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1014	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3009	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1015	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1016	NCB11AK-106X	C CAPACITOR	10uF 10V K	C3016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1017	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3018	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1018	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3019	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1019	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3021	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1021	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3022	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C1023	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1025	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3025	NCB11AK-106X	C CAPACITOR	10uF 10V K
C1026	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3026	NCB11AK-106X	C CAPACITOR	10uF 10V K
C1028	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3028	NDC31HJ-221X	C CAPACITOR	220pF 50V J
C1029	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3030	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1030	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1031	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3032	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1032	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3037	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1033	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3040	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1034	NDC31HJ-390X	C CAPACITOR	39pF 50V J	C3041	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1035	NDC31HJ-680X	C CAPACITOR	68pF 50V J	C3042	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1037	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C3043	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1038	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3044	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1039	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3045	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1040	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3047	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1041	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	C3049	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1042	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C3051	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1043	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3052	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C1045	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C3056	NCB31AK-334X	C CAPACITOR	0.33uF 10V K
C1046	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3059	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
C1047	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3060	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C1048	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	C3063	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1049	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3065	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1050	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	C3066	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1051	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	C3067	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1061	NDC31HJ-4R0X	C CAPACITOR	4pF 50V J	C3068	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1062	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	C3069	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1063	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C3070	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1064	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3071	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1065	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	C3072	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1066	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	C3074	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1067	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	C3076	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1068	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	C3097	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1069	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C3101	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1071	NBE20GM-106X	TA E CAPACITOR	10uF 4V M	C3105	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1072	NBE20GM-106X	TA E CAPACITOR	10uF 4V M	C3107	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1073	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	C3109	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1074	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	C3111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1075	NBE40JM-476X	TA E CAPACITOR	47uF 6.3V M	C3112	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1076	NBE20GM-106X	TA E CAPACITOR	10uF 4V M	C3127	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C1077	NEHM1CM-476X	E CAPACITOR	47uF 16V M	C3128	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C1081	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3129	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C1082	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3406	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C1083	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3501	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1084	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3503	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1085	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3506	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1086	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3507	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1087	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3508	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1102	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3509	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1103	NDC31HJ-680X	C CAPACITOR	68pF 50V J	C3511	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1104	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C3515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1105	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C3516	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C3517	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1107	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C3518	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1109	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C3519	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1111	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	C3524	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1202	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3527	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1203	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3530	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1204	NDC31HJ-560X	C CAPACITOR	56pF 50V J	C3531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1205	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C3532	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1206	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C3533	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C1209	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C3535	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1302	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C3539	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1303	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3540	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1304	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C3542	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C1305	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C3543	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C3548	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1309	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C3549	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C1311	NDC31HJ-470X	C CAPACITOR	47pF 50V J	C3550	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1402	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C3551	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C1403	NDC31HJ-330X	C CAPACITOR	33pF 50V J	C3552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1404	NDC31HJ-151X	C CAPACITOR	150pF 50V J	C4002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C4003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C7517	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C4005	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C4006	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7520	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4008	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C7522	NEHM1CM-106X	E CAPACITOR	10uF 16V M
C4009	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7523	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C4010	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7524	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C4011	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C7525	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4012	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7526	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4013	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7527	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4016	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7528	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4020	NCB31AK-105X	C CAPACITOR	1uF 10V K	C7529	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C7530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C7531	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C4029	NDC31HJ-470X	C CAPACITOR	47pF 50V J	C7532	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4030	NDC31HJ-470X	C CAPACITOR	47pF 50V J	C7533	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4031	NCB11AK-106X	C CAPACITOR	10uF 10V K	C7534	NCB11AK-106X	C CAPACITOR	10uF 10V K
C4901	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7535	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7536	NDC31HJ-470X	C CAPACITOR	47pF 50V J
C4906	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7541	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7542	NEHLOGM-227X	E CAPACITOR	220uF 4V M
C4908	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7543	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C4909	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7544	NEHLOGM-107X	E CAPACITOR	100uF 6.3V M
C4910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7545	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C4913	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7546	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C4914	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7547	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C4915	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7548	NEHLOGM-227X	E CAPACITOR	220uF 4V M
C4916	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7550	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4917	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7552	NCB31AK-105X	C CAPACITOR	1uF 10V K
C4919	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7557	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C4920	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C7616	NCB11CK-105X	C CAPACITOR	1uF 16V K
C4921	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9001	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C4922	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9002	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C4923	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9003	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C4925	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9202	NCJ41HK-335X-U	C CAPACITOR	
C4926	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9203	NCB31EK-393X	C CAPACITOR	0.039uF 25V K
C4931	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C4932	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9205	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K
C4933	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9207	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4934	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9209	NELA1AM-157X	E CAPACITOR	150uF 10V M
C4935	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9211	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C4936	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C9212	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C4937	NCB31HK-103X	C CAPACITOR	0.01uF 50V K				
C4938	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C4939	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0106	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C4940	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0107	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C4941	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0109	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C4942	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0110	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6013	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0114	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C6014	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0116	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6015	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0119	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
C6512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0121	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C6513	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0122	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C6514	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0125	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C6515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0126	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C6516	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0127	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6520	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0128	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C6521	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0129	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C6522	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0131	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C6523	NCB11AK-106X	C CAPACITOR	10uF 10V K	R0132	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7001	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0133	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7002	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0134	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7003	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R0137	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7006	NDC31HJ-150X	C CAPACITOR	15pF 50V J	R0138	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
C7007	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0140	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C7012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0141	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R0205	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7017	NDC31HJ-391X	C CAPACITOR	390pF 50V J	R0206	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C7018	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0207	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C7025	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0208	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C7201	NCB31AK-105X	C CAPACITOR	1uF 10V K	R0209	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
C7202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0210	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7203	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0211	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7401	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R0214	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7402	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R0216	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7403	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R0219	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
C7501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C7502	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0222	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7503	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0225	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C7504	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0226	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7505	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0227	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
C7506	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0228	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C7507	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0229	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C7508	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0231	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7509	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0232	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7510	NEHM1CM-106X	E CAPACITOR	10uF 16V M	R0233	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7511	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0234	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C7512	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0237	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
C7513	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0238	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
C7515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R0240	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C7516	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R0241	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R0242	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1306	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R0243	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1307	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R0305	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1313	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R0306	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R1401	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R0307	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R1403	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0308	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	R1404	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R0309	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R1405	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R0310	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1406	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R0311	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1407	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R0314	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1413	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R0316	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1523	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
R0319	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	R1524	NRSA63J-474X	MG RESISTOR	470kΩ 1/16W J
R0321	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1525	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0322	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1584	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0325	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R2152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0326	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R3001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0327	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	R3004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R0328	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R3006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0329	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3007	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0331	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R3008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0332	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R3009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0333	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0334	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R3013	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0337	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J	R3014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0338	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	R3015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0340	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R3018	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J
R0341	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R3019	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J
R0342	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R3020	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J
R0343	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3021	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R0344	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R3022	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D
R0345	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R3023	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D
R0501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3024	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0502	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3028	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0504	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3029	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
R0506	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3030	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R0507	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3031	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D
R0508	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3032	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J
R0516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3033	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J
R0517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3034	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J
R0518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0519	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3037	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R0520	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3038	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0522	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3040	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J
R0523	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3041	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R0524	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3042	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J
R0526	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3043	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R0527	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3044	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1001	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	R3045	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1002	NRSA63D-101X	MG RESISTOR	100Ω 1/16W D	R3047	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1004	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3048	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3053	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3054	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1007	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3056	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1010	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	R3063	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1011	NQL093K-R10X	P COIL	0.1uH K	R3064	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1012	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R3065	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1013	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	R3066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3069	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1017	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3070	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1018	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R3071	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1021	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3089	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1022	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3090	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1025	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3091	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1026	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3092	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1027	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3093	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1028	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3094	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1029	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3095	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1030	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3096	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1101	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R3097	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3098	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1104	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R3099	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1105	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R3100	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1106	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R3101	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1107	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R3102	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1108	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	R3103	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1113	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	R3104	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3105	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1115	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3106	NRS144J-0R0X	MG RESISTOR	0Ω 1/4W J
R1201	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R3114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1203	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3116	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1204	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R3118	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1205	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R3120	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1206	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R3122	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R1207	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R3126	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1213	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	R3152	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1301	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R3153	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1303	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3155	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1304	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R3160	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1305	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	R3161	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

(No.YA299)3-19

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R7144	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	R9206	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R7145	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	R9207	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7146	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	R9208	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R7148	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R9209	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R7149	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R9210	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7150	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA1001	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7151	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	RA1002	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7152	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	RA1003	NRZ0040-101X	NET RESISTOR	100Ω 1/16W J x4
R7153	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA3002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4
R7158	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4
R7159	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3013	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4
R7160	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3014	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4
R7161	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3015	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4
R7202	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	RA3016	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4
R7203	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RA3018	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7204	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3020	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7205	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RA3022	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7206	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3023	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3024	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7208	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RA3025	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7209	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	RA3026	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7210	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3028	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7211	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3030	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7212	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	RA3032	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7213	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RA3502	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7214	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3506	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7215	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	RA3508	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3512	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7219	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3516	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7222	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3518	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7224	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	RA3521	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7401	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA3523	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7404	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3526	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7501	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA3530	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7510	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3531	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7511	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3536	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7514	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3540	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7515	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3542	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7518	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA3545	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7553	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3547	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R7556	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RA4007	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7557	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RA4008	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7558	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA4009	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7559	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA4010	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7560	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	RA4011	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7561	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RA4012	NRZ0034-101W	NET RESISTOR	100Ω 1/32W J x4
R7565	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA6515	NRZ0034-0R0W	NET RESISTOR	0Ω 1/32W J x4
R7566	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	RA7007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J J
R7567	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	RA7501	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7568	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	RA7502	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7569	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J	RA7503	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
R7576	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RA7504	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7588	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RA7505	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R7590	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L0101	NQL092K-R68X	P COIL	0.68uH K
R7599	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L0102	NQL092K-1R0X	P COIL	1uH K
R7602	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L0201	NQL092K-R68X	P COIL	0.68uH K
R7603	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L0202	NQL092K-1R0X	P COIL	1uH K
R7692	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L0301	NQL092K-R68X	P COIL	0.68uH K
R7701	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L0302	NQL092K-1R0X	P COIL	1uH K
R7702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L0401	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1001	NQR0489-002X	FERRITE BEADS	
R7704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1002	NQR0489-002X	FERRITE BEADS	
R7705	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1003	NQL092K-1R5X	P COIL	1.5uH K
R7706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1004	NQR0489-002X	FERRITE BEADS	
R7707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1005	NQR0489-002X	FERRITE BEADS	
R7708	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	L1006	NQR0489-002X	FERRITE BEADS	
R7709	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L1008	NQL79GM-220X	COIL	22uH M
R7710	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L1010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L1011	NQL79GM-470X	COIL	47uH M
R7712	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L1101	NQL092K-6R8X	P COIL	6.8uH K
R7713	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1103	NQL093K-1R0X	P COIL	1uH K
R7715	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1104	NQL093K-R10X	P COIL	0.1uH K
R7716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1201	NQL092K-6R8X	P COIL	6.8uH K
R7717	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1203	NQL092K-1R0X	P COIL	1uH K
R7718	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1301	NQL092K-3R3X	P COIL	3.3uH K
R7719	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	L1303	NQL092K-1R0X	P COIL	1uH K
R7720	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1304	NQL093K-R10X	P COIL	0.1uH K
R7721	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L1401	NQL092K-3R3X	P COIL	3.3uH K
R7722	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L1403	NQL092K-1R0X	P COIL	1uH K
R7723	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L1404	NQL093K-R10X	P COIL	0.1uH K
R7724	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L1501	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7725	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1533	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7726	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	L1534	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7727	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	L3005	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R7728	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L3006	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9201	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	L3008	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9202	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	L3009	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9204	NRSA63D-272X	MG RESISTOR	2.7kΩ 1/16W D	L3010	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R9205	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D				

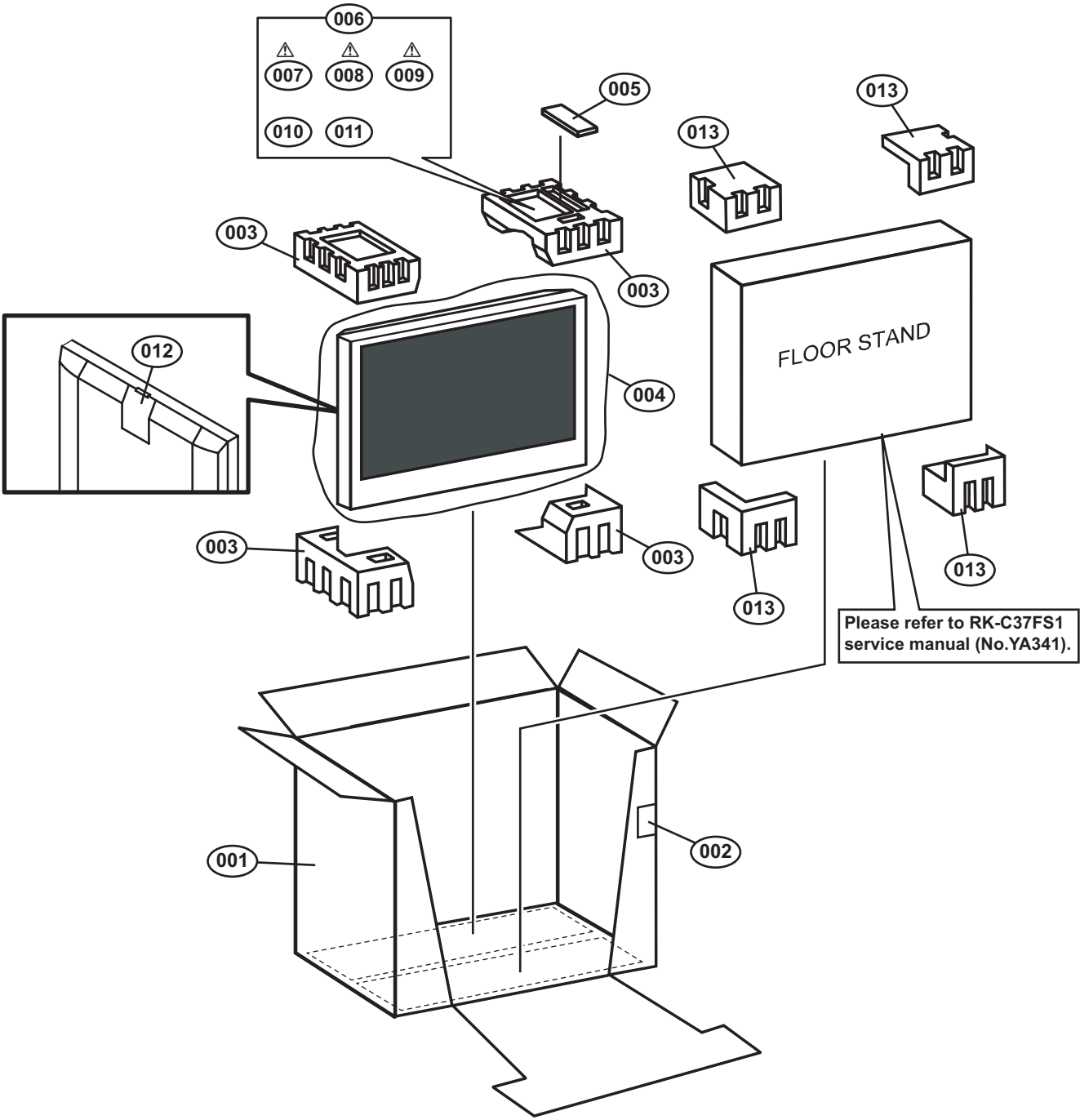
△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
L3011	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3008	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
L3012	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3009	NEHL1HM-106X	E CAPACITOR	10uF 50V M	
L3013	NQL093K-R10X	P COIL		0.1uH K	C3010	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
L3014	NQL093K-R10X	P COIL		0.1uH K	C3011	NEHL1HM-106X	E CAPACITOR	10uF 50V M	
L3015	NQL093K-R10X	P COIL		0.1uH K	C3012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
L3501	NQR0413-003X	FERRITE BEADS			C3014	NEHL1HM-106X	E CAPACITOR	10uF 50V M	
L4001	NQR0413-003X	FERRITE BEADS			C3015	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
L4002	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3213	NCB11AK-106X	C CAPACITOR	10uF 10V K	
L4003	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3214	NCB11AK-106X	C CAPACITOR	10uF 10V K	
L6501	NQR0351-001X	FERRITE BEADS			C3215	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
L6502	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3501	NCB11AK-106X	C CAPACITOR	10uF 10V K	
L6508	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4	C3502	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
L6509	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4	C3503	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
L6510	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4	C3504	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
L7001	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3511	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
L7002	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3512	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
L7003	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3513	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
L7004	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3514	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J	
L7005	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3515	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
L7006	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3516	NEHL1AM-107X	E CAPACITOR	100uF 10V M	
L7510	NQL092K-4R7X	P COIL		4.7uH K	C3517	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
L7512	NQR0489-002X	FERRITE BEADS			C3518	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
L7513	NQR0489-002X	FERRITE BEADS			C3519	NCB31CK-105X	C CAPACITOR	1uF 16V K	
L9001	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3520	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
L9002	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3521	NCB31CK-105X	C CAPACITOR	1uF 16V K	
L9201	NQL71EM-150X	COIL		15uH M	C3522	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
CN001	QGF0508F1-50X	CONNECTOR	FFC/FPC (1-50)		C3523	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
CN002	QGF0508F1-30X	CONNECTOR	FFC/FPC (1-30)		C3524	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	
J001	NNZ0117-001	HDMI CONNECTOR	DIGITAL IN		C3525	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
K1001	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3526	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
K1002	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3527	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
K1003	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3528	NEHL1AM-107X	E CAPACITOR	100uF 10V M	
K1004	NQR0489-002X	FERRITE BEADS			C3529	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
K1005	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3530	NCB11AK-106X	C CAPACITOR	10uF 10V K	
K3003	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
K3006	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3532	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
K3009	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3533	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
K7002	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	C3534	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
K7502	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3535	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
K7503	NQR0389-003X	FERRITE BEADS			C3536	NCB11AK-106X	C CAPACITOR	10uF 10V K	
K9001	NQR0413-003X	FERRITE BEADS			C3537	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
K9002	NQR0413-003X	FERRITE BEADS			C3544	NCB31AK-105X	C CAPACITOR	1uF 10V K	
LC0102	NQR0483-005X	EMI FILTER	100uF 25V Z		C3546	NCB31AK-105X	C CAPACITOR	1uF 10V K	
LC0519	NQR0416-001X	EMI FILTER	240pF 16V M		C3551	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
LC0522	NQR0470-007X	EMI FILTER	2200pF 50V +50%-20%		C3552	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
LC0524	NQR0483-005X	EMI FILTER	100uF 25V Z		C3553	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
LC0527	NQR0483-006X	EMI FILTER			C3554	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
LC6501	NQR0479-001X	EMI FILTER			C3555	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
LC7004	NQR0483-003X	EMI FILTER			C3556	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
LC7501	NQR0483-006X	EMI FILTER			C3559	NEHL1AM-107X	E CAPACITOR	100uF 10V M	
LC7502	NQR0483-006X	EMI FILTER			C3560	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
SL7001	NAX0613-001X	C RESONATOR			C3571	NCB11AK-106X	C CAPACITOR	10uF 10V K	
TP9001	LC42312-001A	EARTH TERMINAL			C3572	NCB11AK-106X	C CAPACITOR	10uF 10V K	
TP9002	LC42312-001A	EARTH TERMINAL			C3573	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
TP9003	LC42312-001A	EARTH TERMINAL			C3574	NCB11AK-106X	C CAPACITOR	10uF 10V K	
X1001	NAX0642-001X	CRYSTAL			R3002	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
X3001	NAX0635-001X	CXO			R3003	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
X3003	NAX0668-001X	CXO			R3006	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
X4001	NAX0669-001X	C RESONATOR			R3007	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
X7501	NAX0618-001X	CRYSTAL			R3008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
RECEIVER P.W. BOARD ASS'Y (SFL0F203A-U2)					R3009	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
△Ref No.	Part No.	Part Name	Description	Local	R3010	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
IC3204	TPS852-W	PHOTO CONDUCTOR			R3011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
IC3501	MSP3415GQGB8V3M	IC			R3014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
IC3503	HA17558AF-X	IC			R3015	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
IC3504	BA80BC0FP-X	IC			R3016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
IC3505	NJU26901E2-W	IC			R3020	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
IC3506	MC74VHC1GT125TX	IC			R3021	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
IC3507	SN74LVC1G125V-X	IC			R3022	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
IC3508	SN74LVC1G125V-X	IC			R3023	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
IC3509	SN74LVC1G125V-X	IC			R3024	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
IC3510	R1141Q251B-X	IC			R3025	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Q3001	2SC3928A/QR/-X	TRANSISTOR			R3026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Q3502	2SC3928A/QR/-X	TRANSISTOR			R3027	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
Q3503	UN2213-X	DIGI TRANSISTOR			R3028	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C3001	NCB31HK-222X	C CAPACITOR	2200pF 50V K		R3029	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C3002	NEHL1HM-106X	E CAPACITOR	10uF 50V M		R3042	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C3003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K		R3043	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C3004	NEX60JM-227X	E CAPACITOR	220uF 6.3V M		R3111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C3005	NCB31HK-333X	C CAPACITOR	0.033uF 50V K		R3112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
C3007	NCF31AZ-105X	C CAPACITOR	1uF 10V Z		R3120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
					R3219	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
					R3501	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
					R3508	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
					R3511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
					R3512	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
					R3513	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
					R3514	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
					R3515	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R3516	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3576	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3517	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3577	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3578	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R3519	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3579	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R3520	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3580	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R3521	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3581	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R3530	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3582	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3546	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3583	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3547	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3584	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3551	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R3585	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3552	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	L3001	NQL79GM-220X	COIL	22uH M
R3553	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	L3002	NQL79GM-100X	COIL	10uH M
R3554	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	L3003	NQL79GM-220X	COIL	22uH M
R3555	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	L3503	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R3556	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	L3504	NQL79GM-4R7X	COIL	4.7uH M
R3557	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L3506	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R3558	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L3507	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R3559	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L3508	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R3560	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L3509	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R3561	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K3501	NQR0389-003X	FERRITE BEADS	
R3562	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	K3502	NQR0389-003X	FERRITE BEADS	
R3563	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	LC3501	NQR0431-001X	EMI FILTER	0.22uF 50V Z
R3564	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	△TU3002	QAU0428-001	TUNER	
R3572	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	UD3001	QAU0429-001	RF SPLITTER	
R3573	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	X3501	QAX0773-001Z	CRYSTAL	18.432000MHz
R3574	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J				
R3575	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J				

REMOTE CONTROL UNIT PARTS LIST (RM-C1813H-1C)

△ Ref No.	Part No.	Part Name	Description	Local
	2AA070311	BATTERY COVER		

PACKING



PACKING PARTS LIST

△	Ref.No.	Part No.	Part Name	Description	Local
	001	GA10002-071A-U	PACKING CASE	(For SET)	
	002	GA10027-026A-U	EURO LABEL		
	003	GA10133-001A-U	CUSHION ASSY	4pcs in 1set (For SET)	
	004	GA10026-003A-U	FORM BAG		
	005	RM-C1813H-1C	REMOCON UNIT		
	006	GA30007-001A-U	DOCUMENT BAGS		
△	007	-----	WARRANTY CARD	BT-54027-1E	
△	008	LCT1939-001A-U	INST BOOK		
△	009	GA30011-001A-U	REGISTRATION CARD		
	010	-----	BATTERY	R6P/AA(x2)	
	011	LCT1923-001A-U	SHEET(WEEE)-E		
	012	LCT1504-001A-U	CAUTION SHEET		
	013	GA10133-002A-U	CUSHION ASSY	4pcs in 1set (For STAND)	

JVC

SCHEMATIC DIAGRAMS

LCD INTEGRATED DIGITAL TV

LT-37DS6FJ/P

CD-ROM No.SML200508



BASIC CHASSIS

FL2

DynaPiX
Powered by D.I.S.T.

InteriArt

T-V LINK

BBE

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE


DVB
Digital Video
Broadcasting

LT-37DS6FJ/P

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k Ω /V
- (4)Oscilloscope sweeping time : H \Rightarrow 20 μ s / div
: V \Rightarrow 5ms / div
: Others \Rightarrow Sweeping time is specified
- (5)Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R209 \rightarrow R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

- No unit : [Ω]
- K : [k Ω]
- M : [M Ω]

● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflammable resistor
- FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

- 1 or higher : [pF]
- less than 1 : [μ F]

● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

● Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3)Coils

- No unit : [μ H]
- Others : As specified

(4)Power Supply



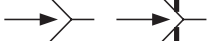
-  : B1
-  : B2 (12V)
-  : 9V
-  : 5V

* Respective voltage values are indicated





(5)Test point

-  : Test point
-  : Only test point display



(6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

CONTENTS

SEMICONDUCTOR SHAPES

2-2

WIRING DIAGRAM

2-3

BLOCK DIAGRAM

2-5

CIRCUIT DIAGRAMS

RECEIVER PWB CIRCUIT DIAGRAM

2-7

ANALOG SIGNAL PWB CIRCUIT DIAGRAM

2-9

DIGITAL SIGNAL PWB CIRCUIT DIAGRAM

2-19

CONNECTOR PWB CIRCUIT DIAGRAM

2-41

FRONT CONTROL PWB CIRCUIT DIAGRAM

2-43

FRONT LED PWB CIRCUIT DIAGRAM

2-44

POWER PWB CIRCUIT DIAGRAM

2-45

REGULATOR PWB CIRCUIT DIAGRAM

2-49

PATTERN DIAGRAMS

RECEIVER PWB PATTERN

2-51

ANALOG SIGNAL PWB PATTERN

2-53

DIGITAL SIGNAL PWB PATTERN

2-57

CONNECTOR PWB PATTERN

2-61

POWER PWB PATTERN

2-63

REGULATOR PWB PATTERN

2-67

FRONT CONTROL PWB PATTERN

2-69

FRONT LED PWB PATTERN

2-69

VOLTAGE CHATRS.....

2-71

WAVEFORMS

2-74

USING P.W. BOARD

P.W.B ASS'Y name	LT-37DS6FJ/P
ANALOG SIGNAL P.W. BOARD	SFL-1113A-U2
CONNECTOR P.W. BOARD	SFL-4111A-U2
FRONT CONTROL P.W. BOARD	SFL-7111A-U2
FRONT LED P.W. BOARD	SFL-8113A-U2
POWER P.W. BOARD	SFL-9033A-U2
REGULATOR P.W. BOARD	SFL-9133A-U2
DIGITAL SIGNAL P.W. BOARD	LCA10557-70A (SFL-0D237A)
RECEIVER P.W. BOARD	SFL0F203A-U2

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW

FRONT VIEW

TOP VIEW

IC

BOTTOM VIEW

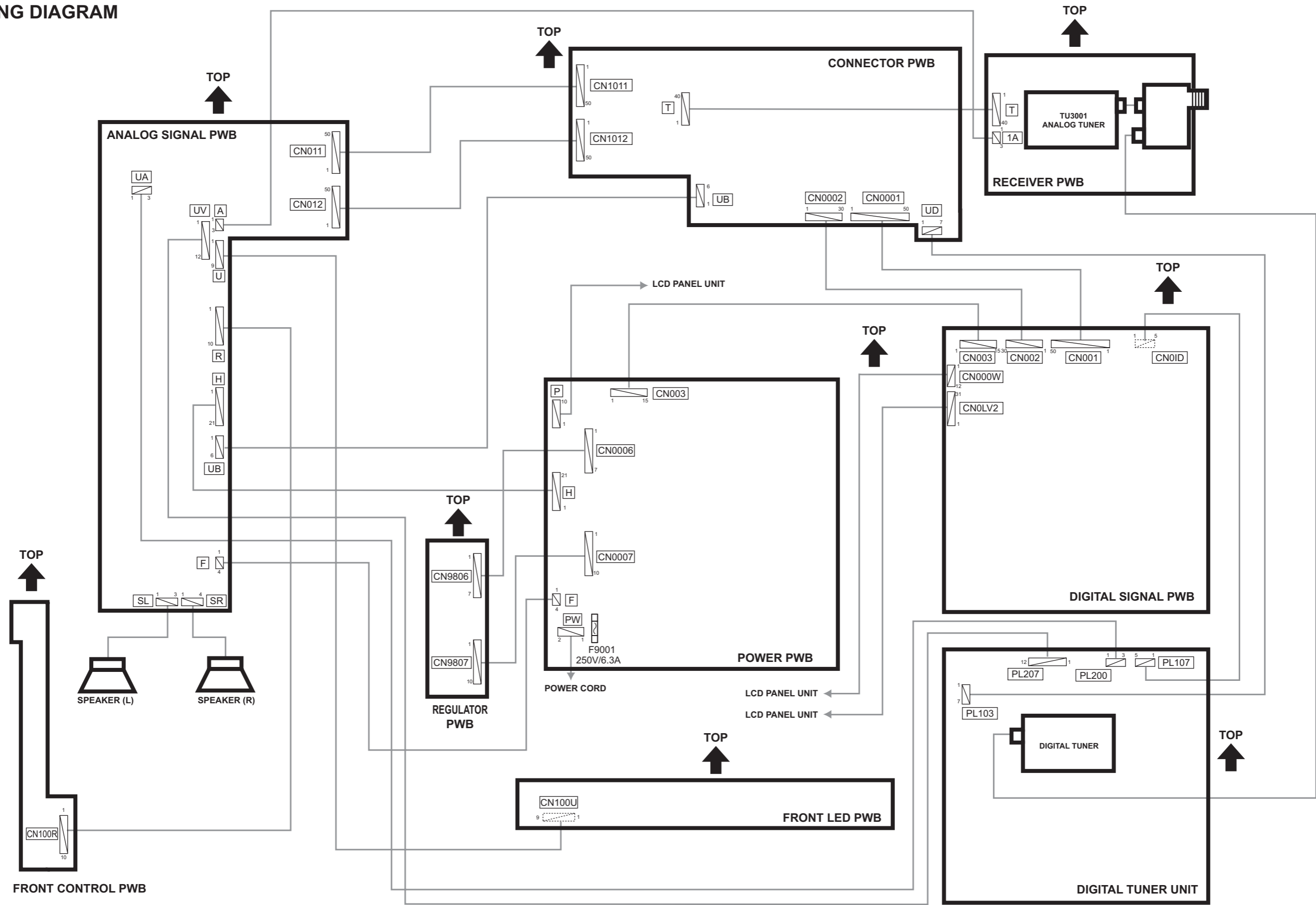
FRONT VIEW

TOP VIEW

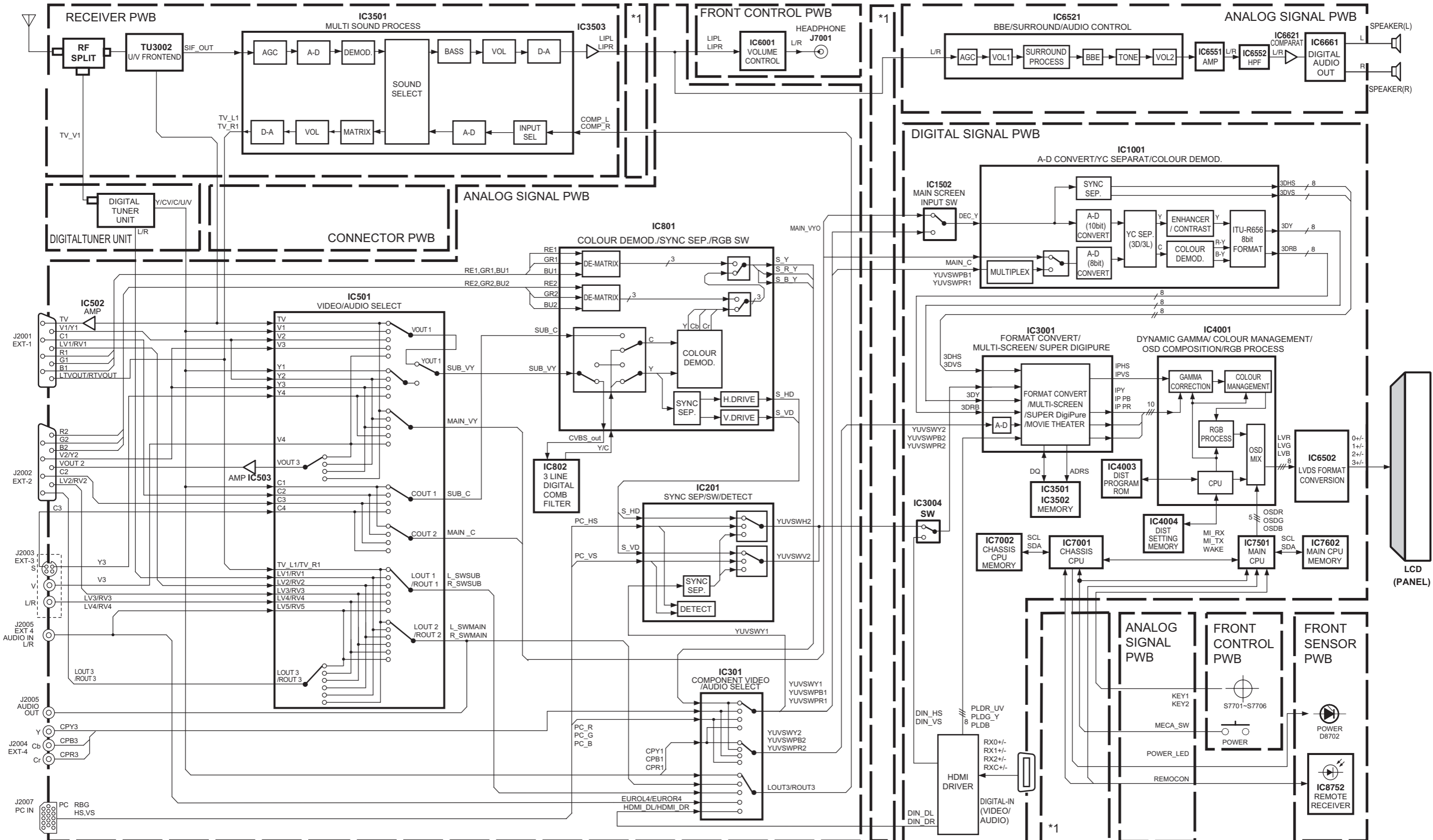
CHIP IC

TOP VIEW

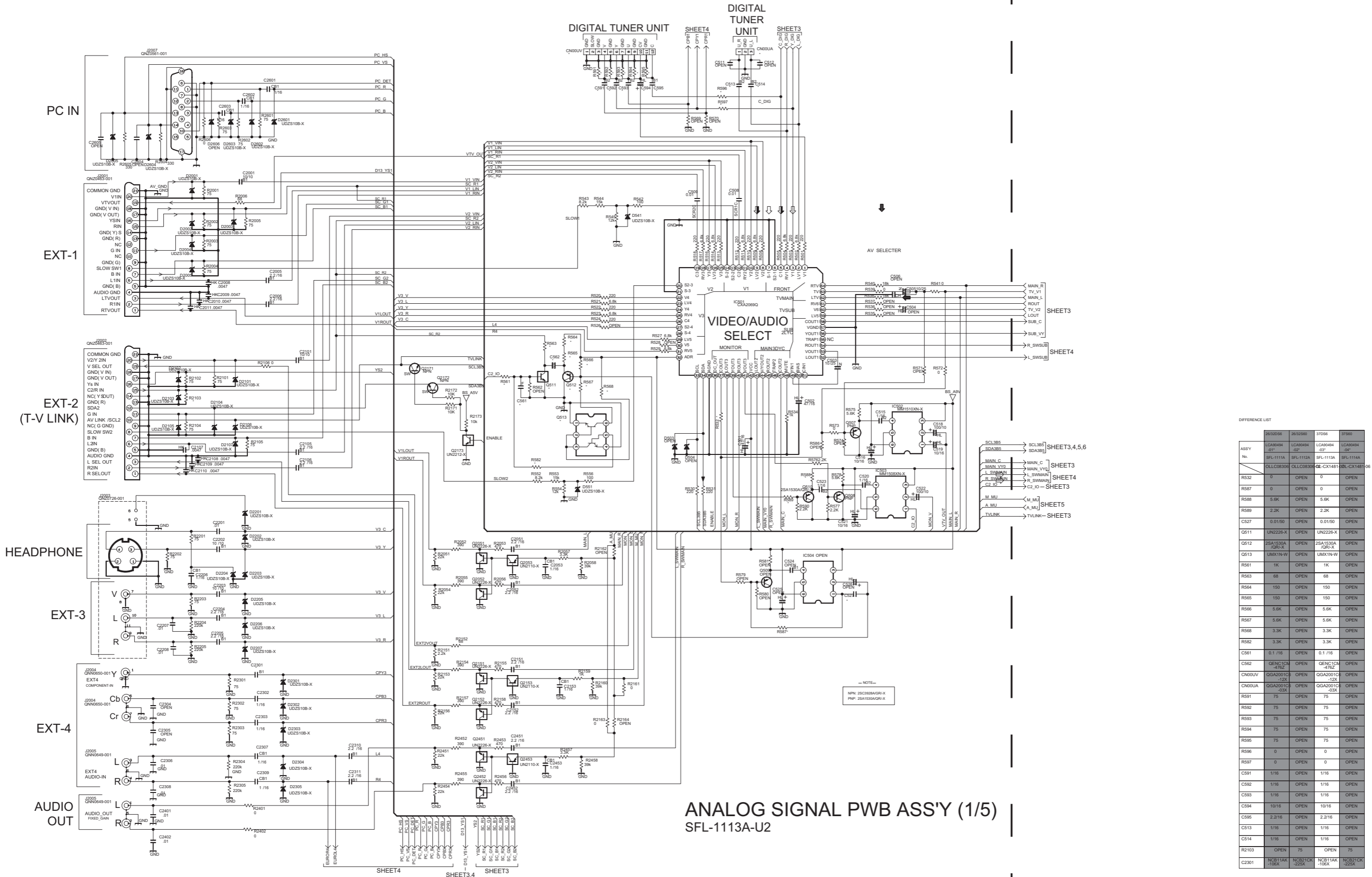
WIRING DIAGRAM



BLOCK DIAGRAM

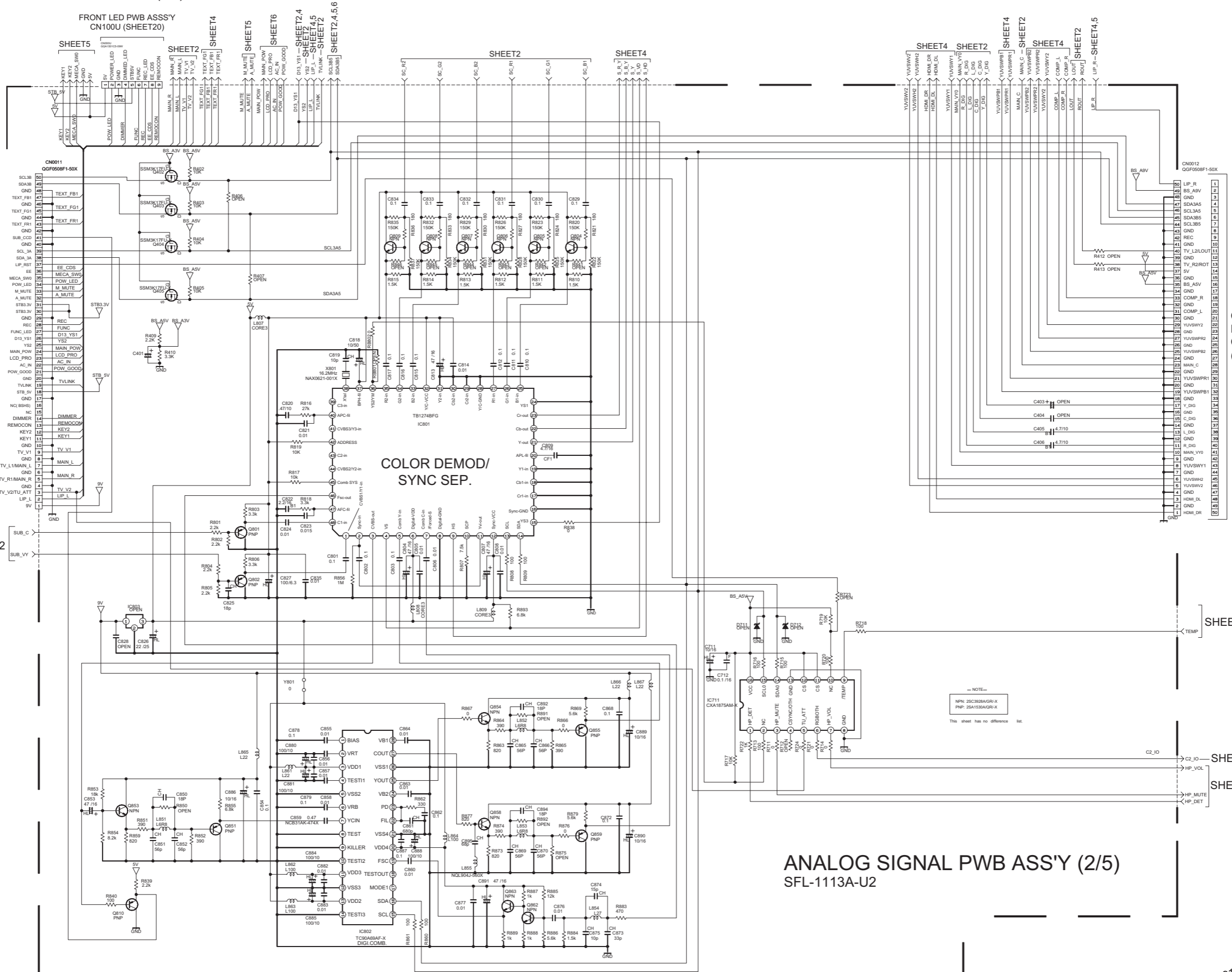


*1 : CONNECTOR PWB



CONNECTOR
PWB ASS'Y
CN0011
(SHEET18)

SHEET2



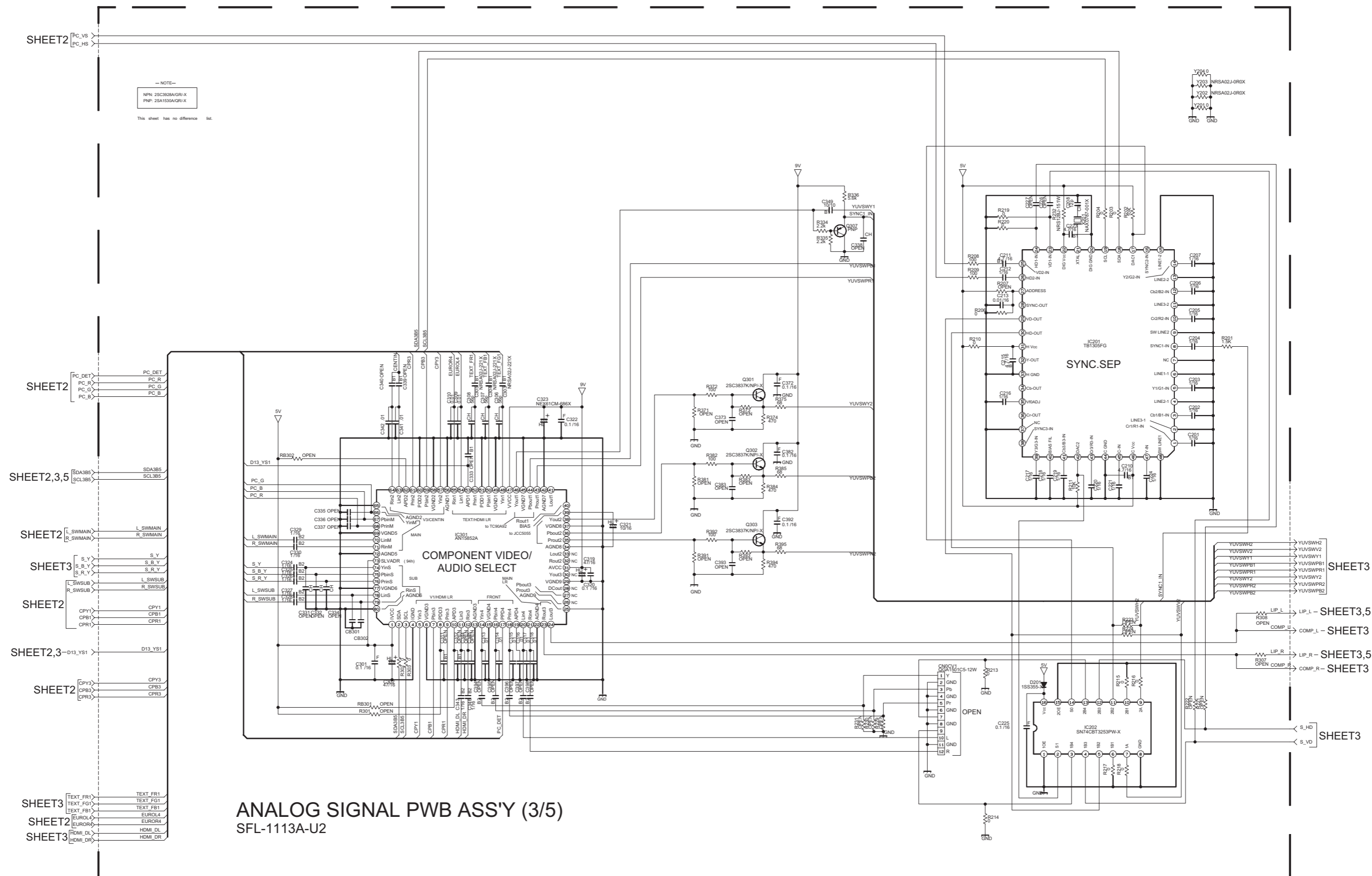
CONNECTOR
PWB ASS'Y
CN0012
(SHEET18)

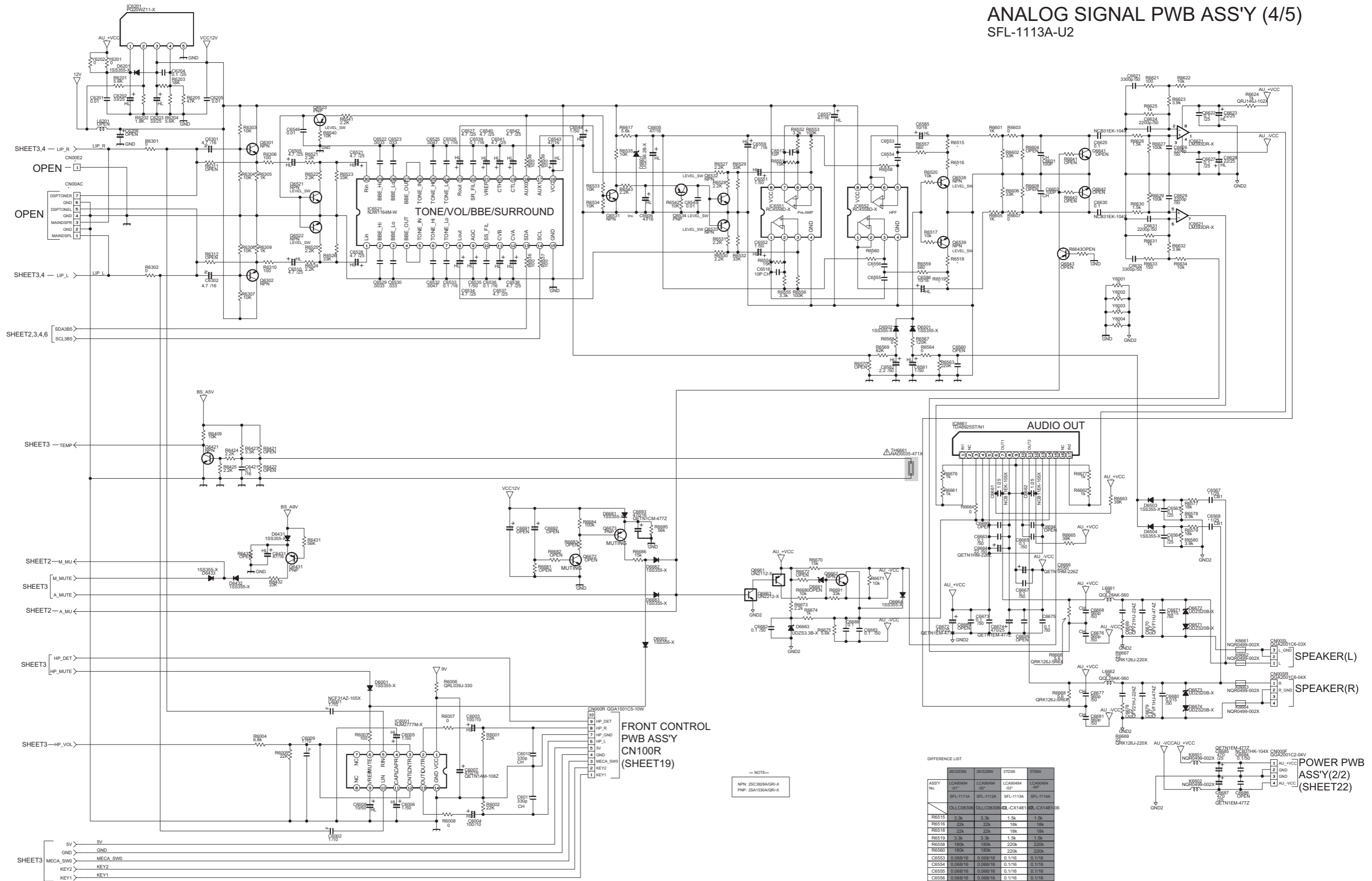
SHEET5

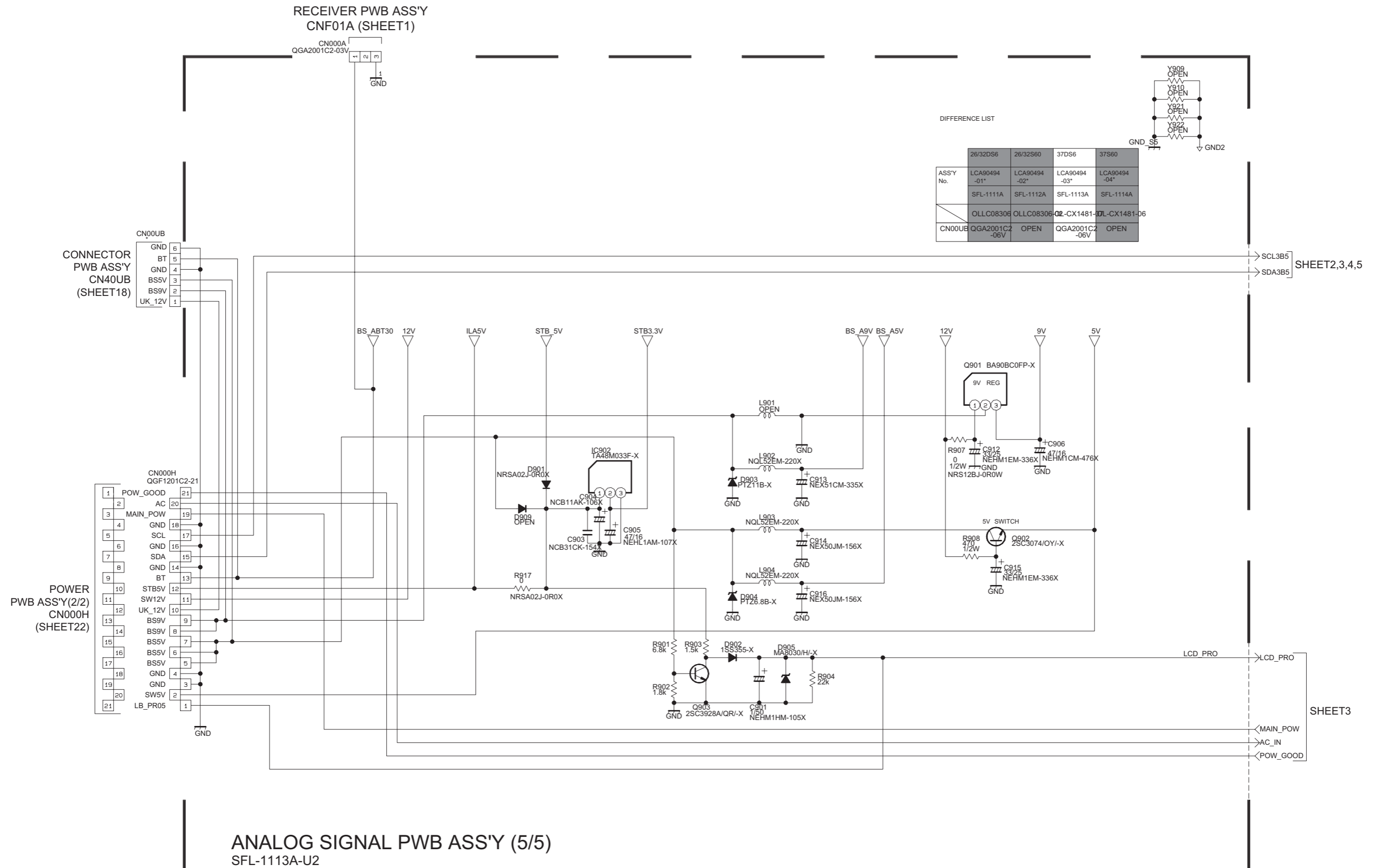
SHEET2

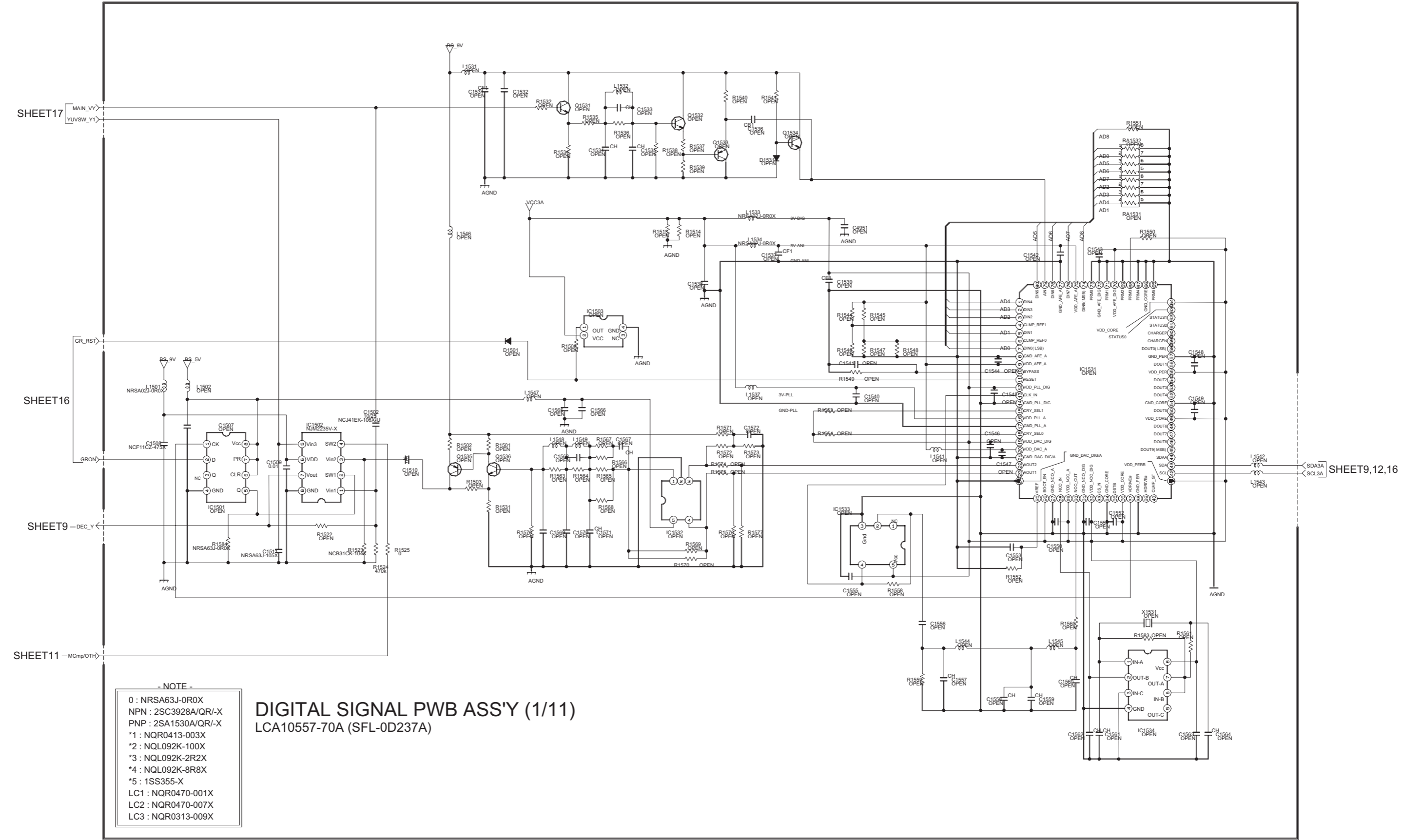
SHEET5

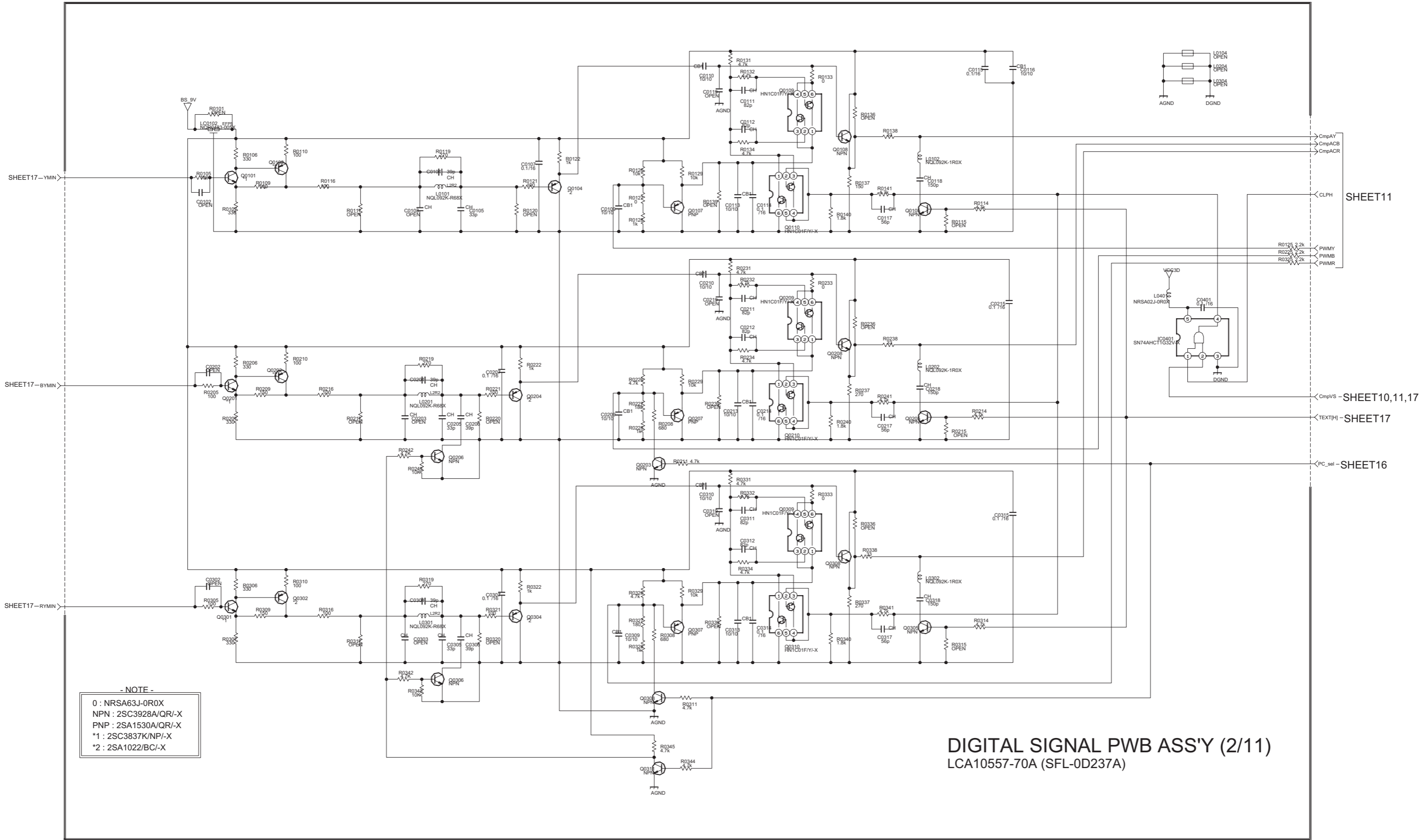
ANALOG SIGNAL PWB ASS'Y (2/5)
SFL-1113A-U2



ANALOG SIGNAL PWB ASS'Y (4/5)
SFL-1113A-U2

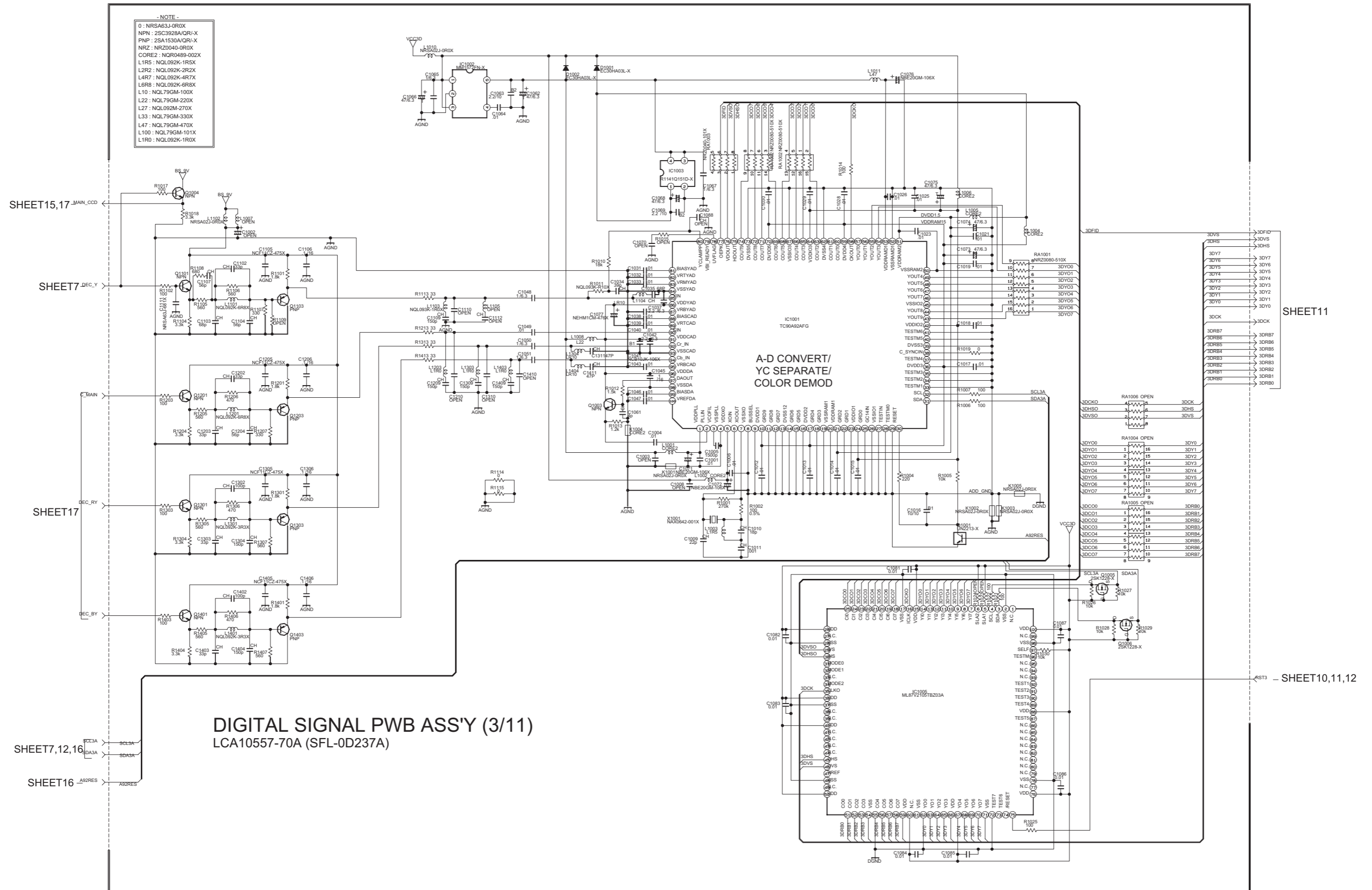


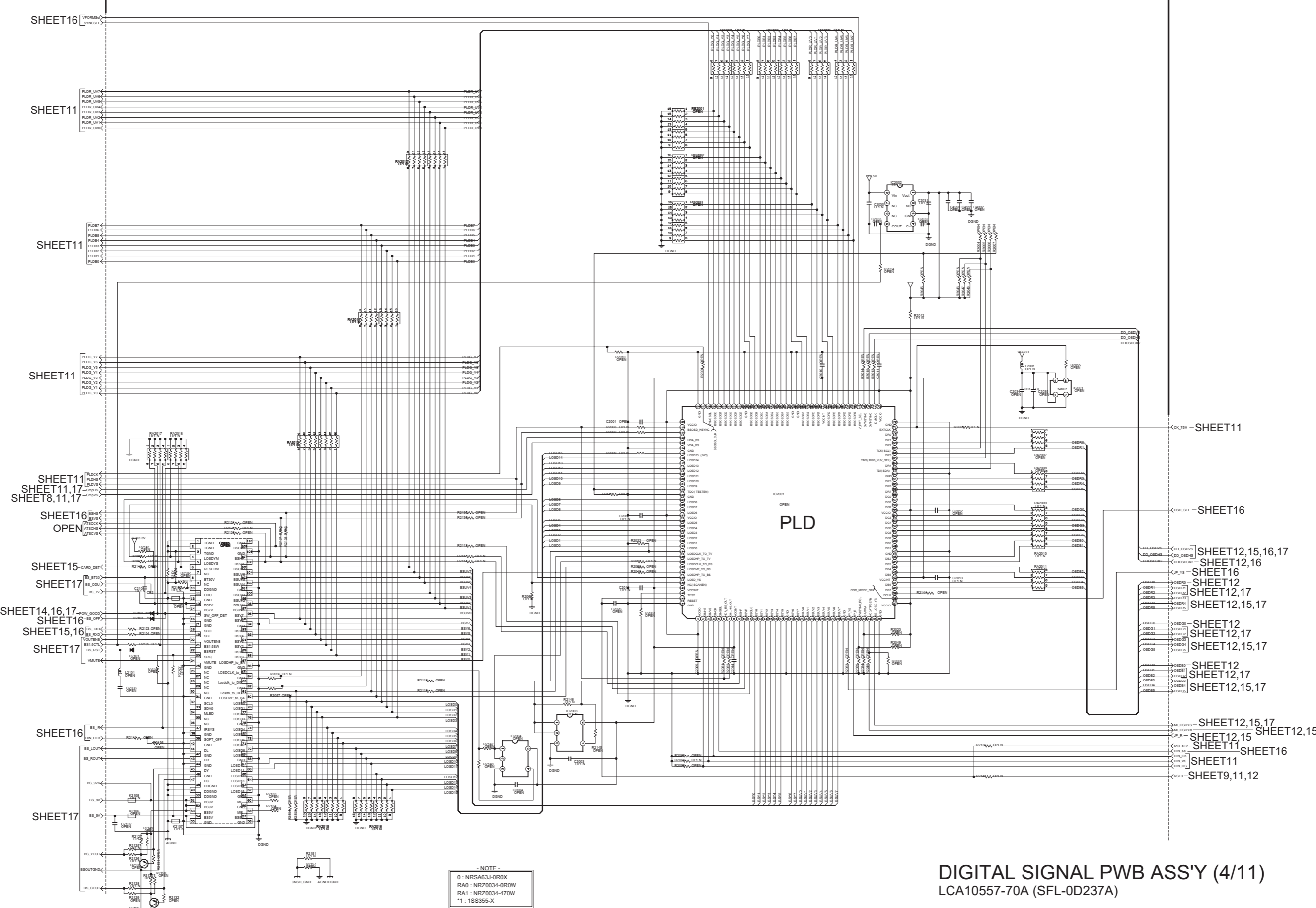


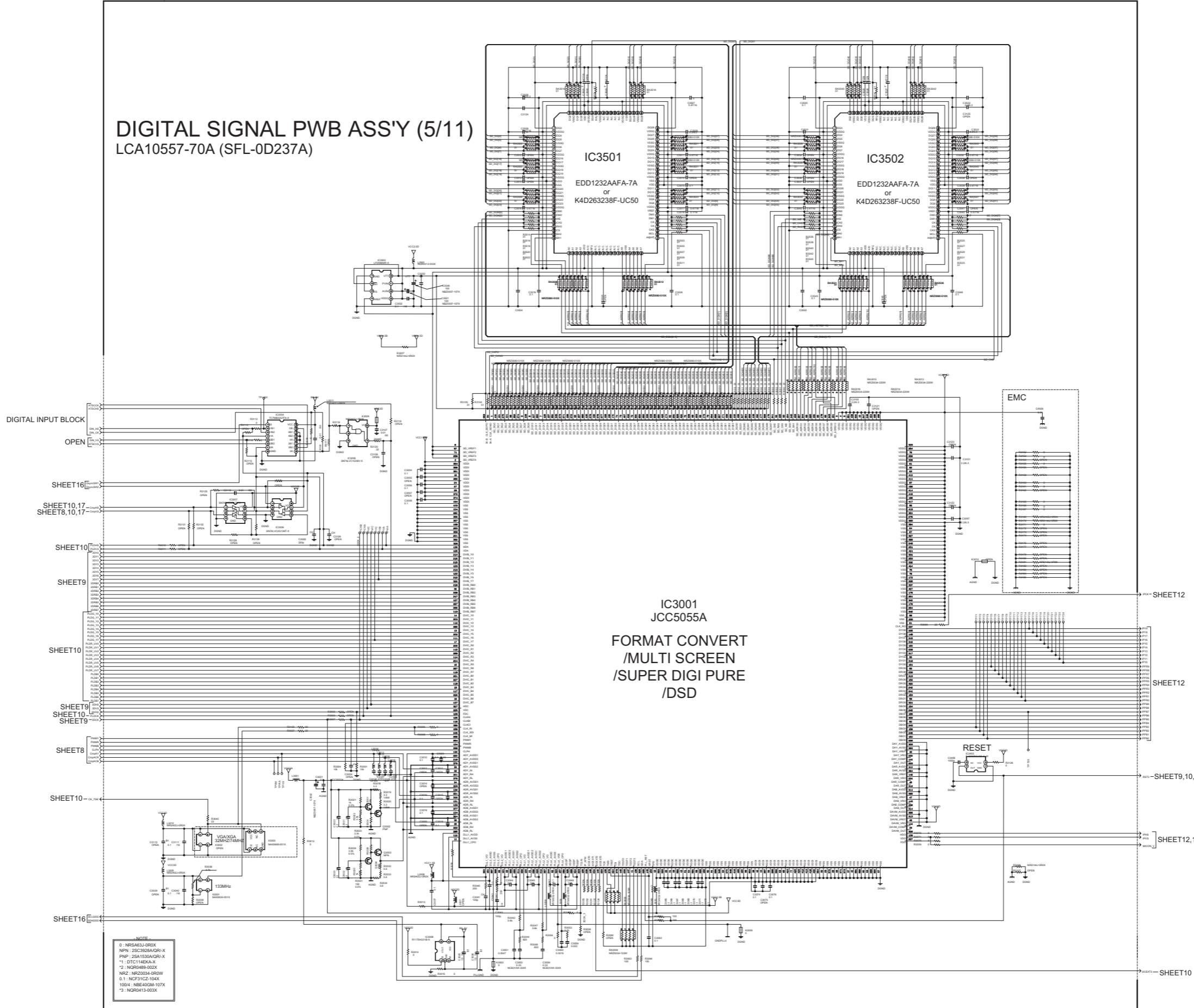


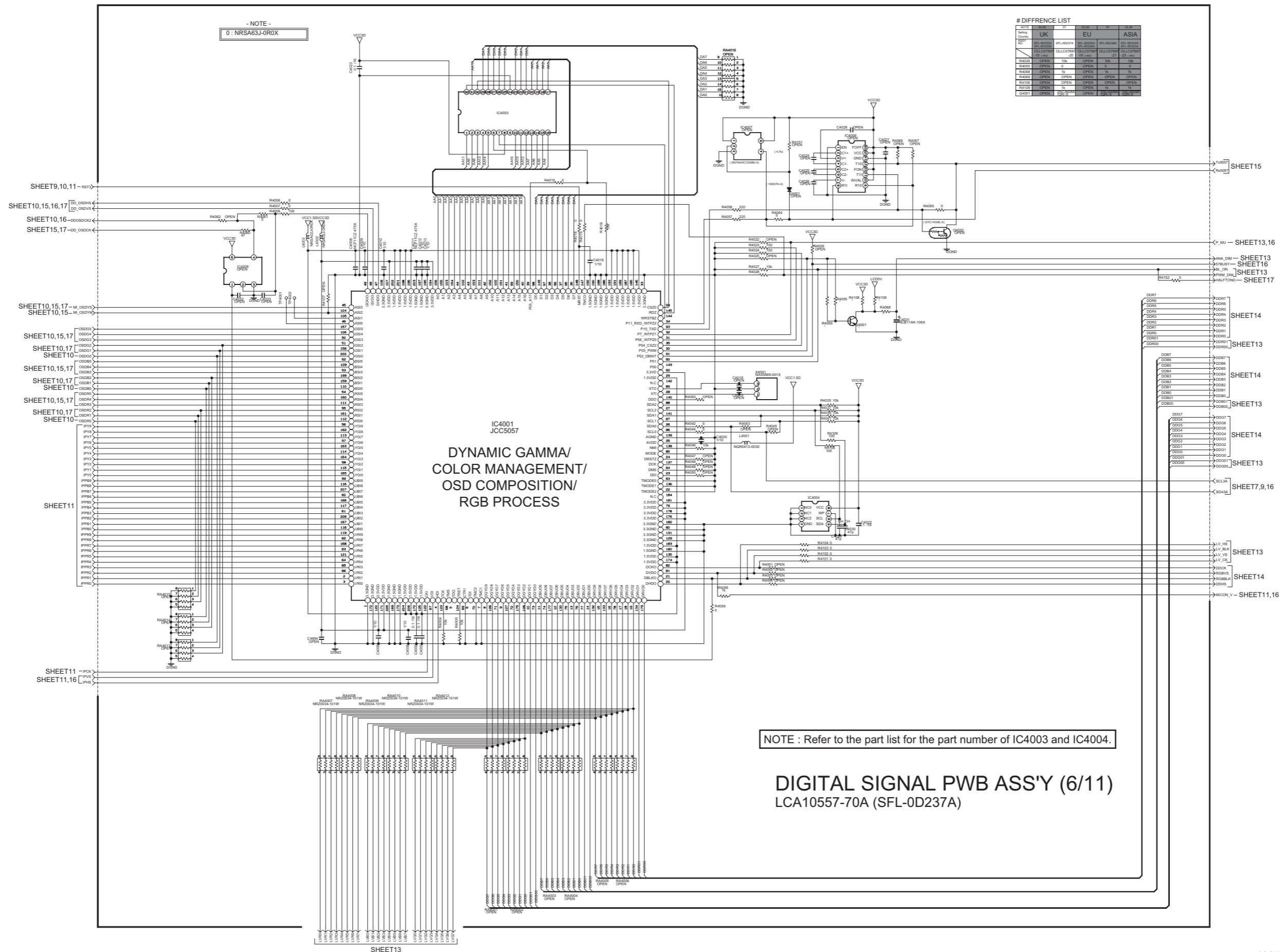
- NOTE -
0 : NRSA63J-0R0X
NPN : 2SC3928A/QR/-X
PNP : 2SA1530A/QR/-X
*1 : 2SC3837K/NP/-X
*2 : 2SA1022/BC/-X

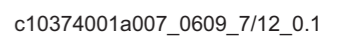
DIGITAL SIGNAL PWB ASS'Y (2/11)
LCA10557-70A (SFL-0D237A)

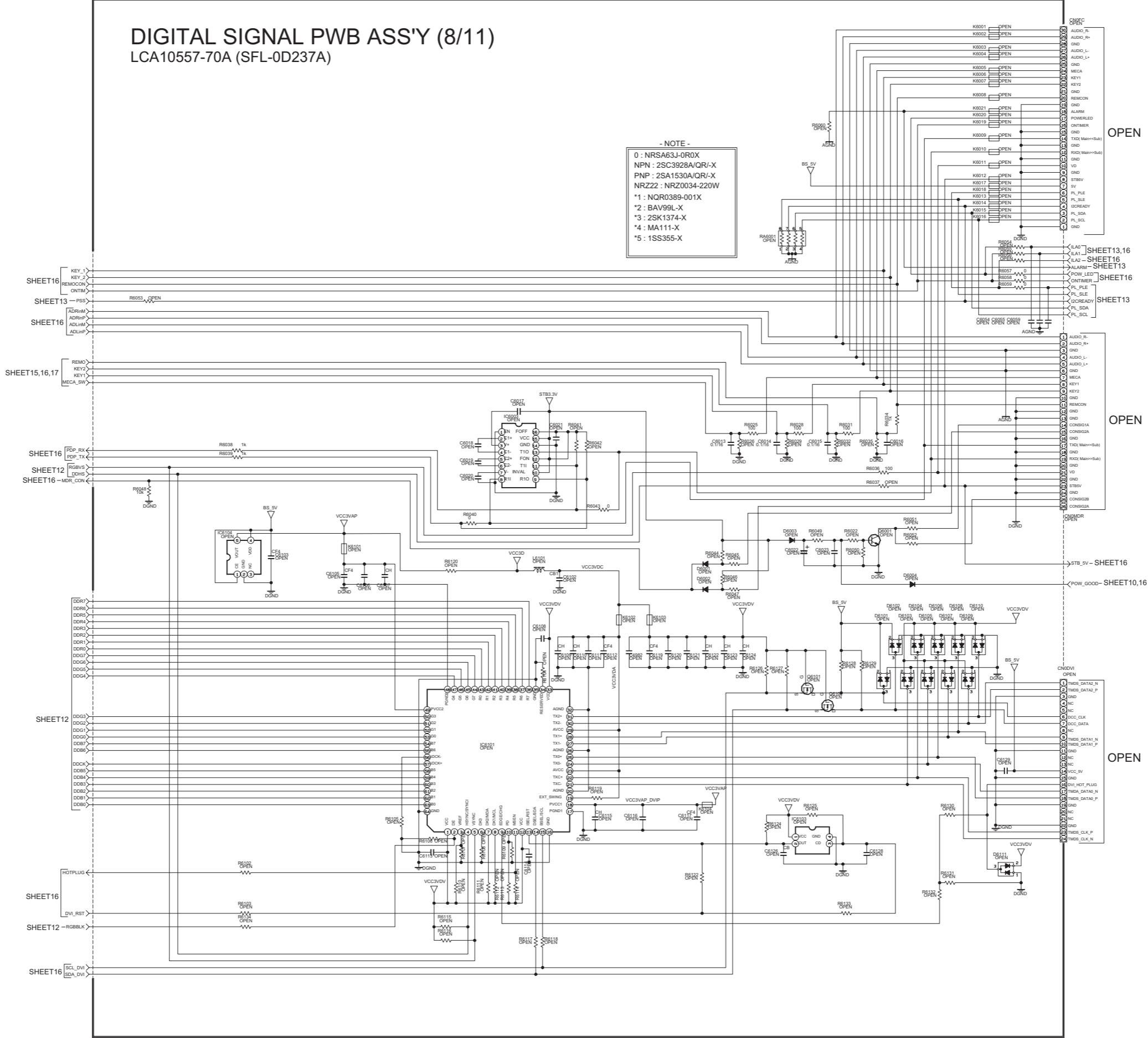




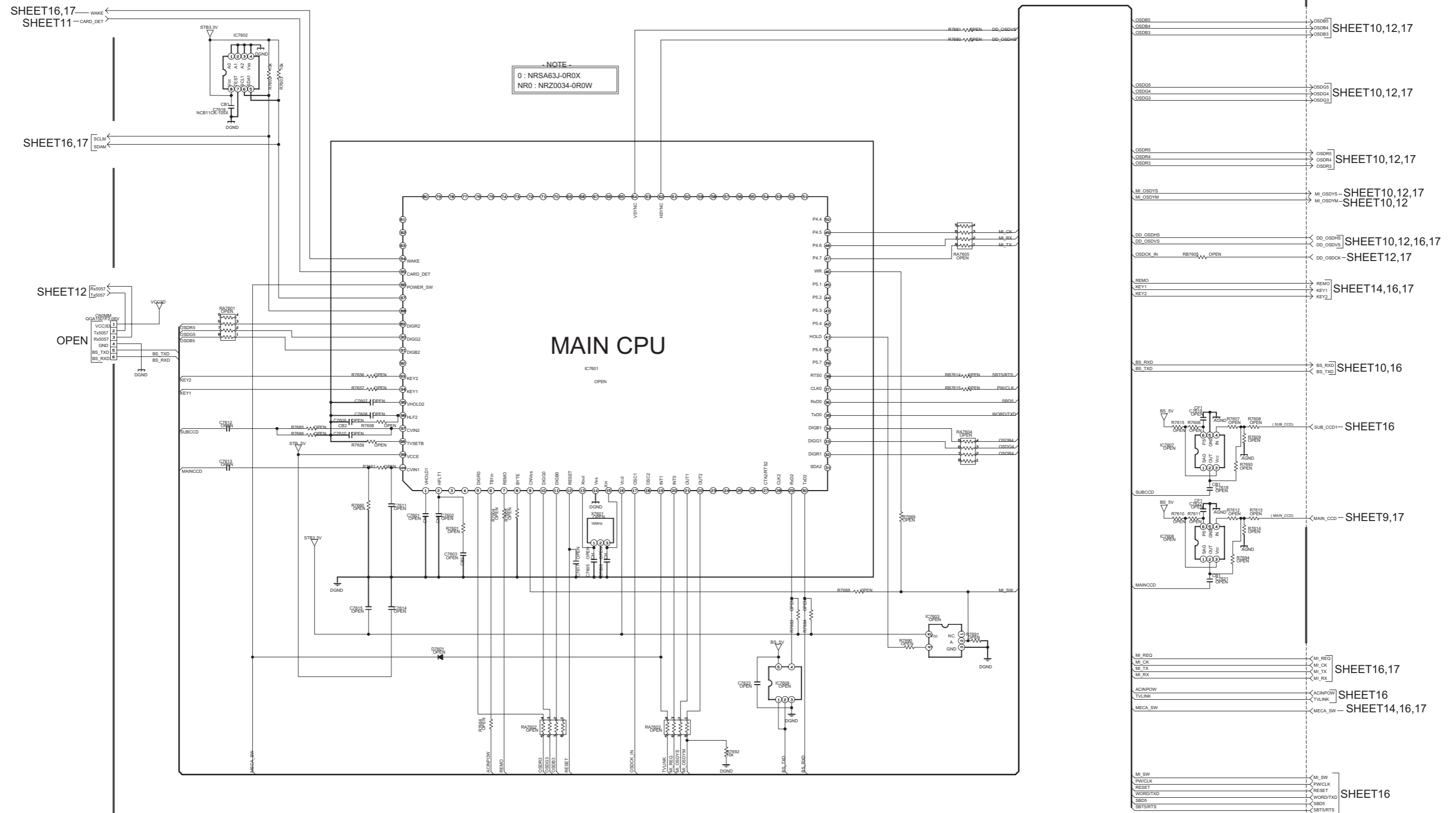




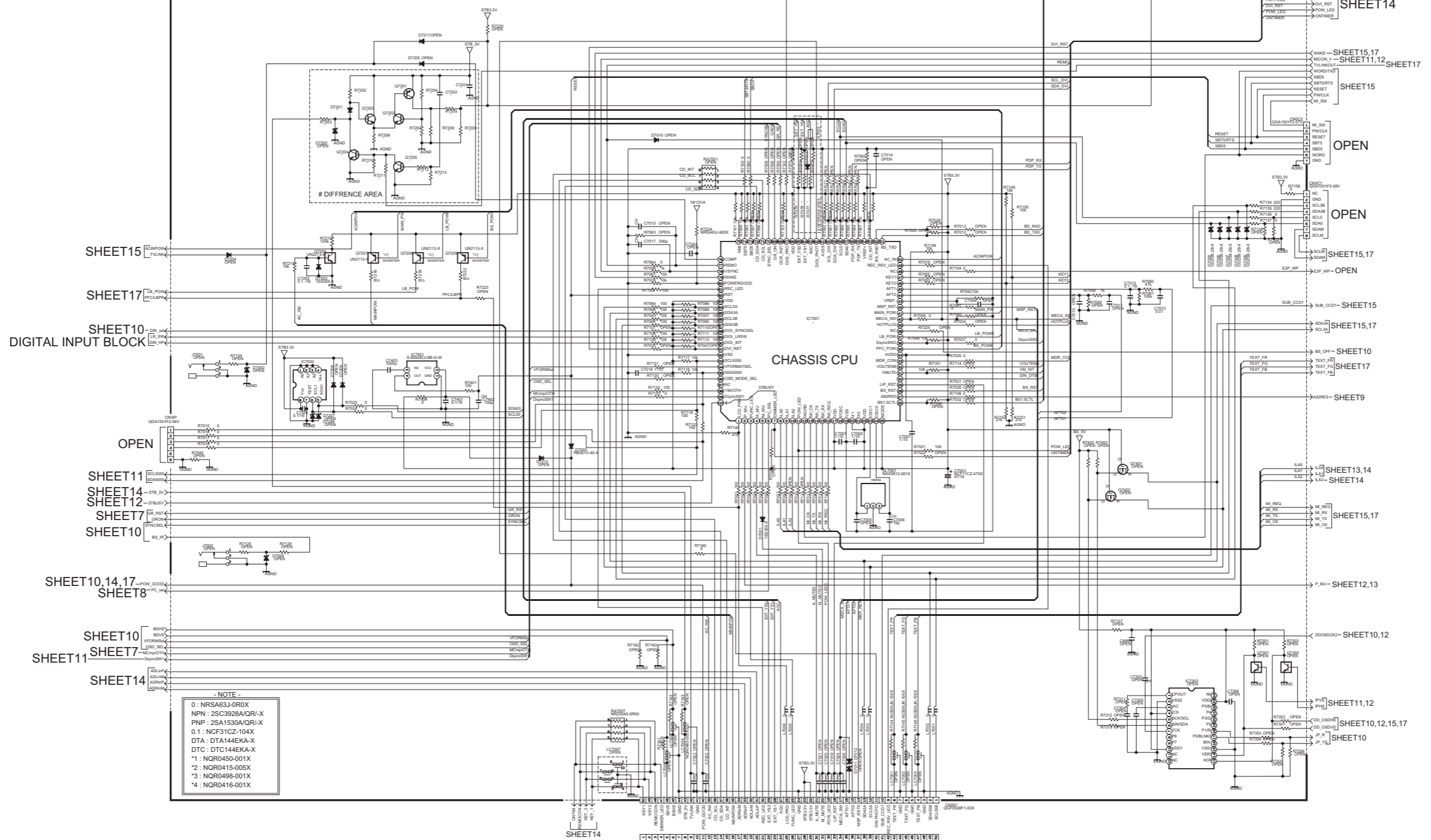


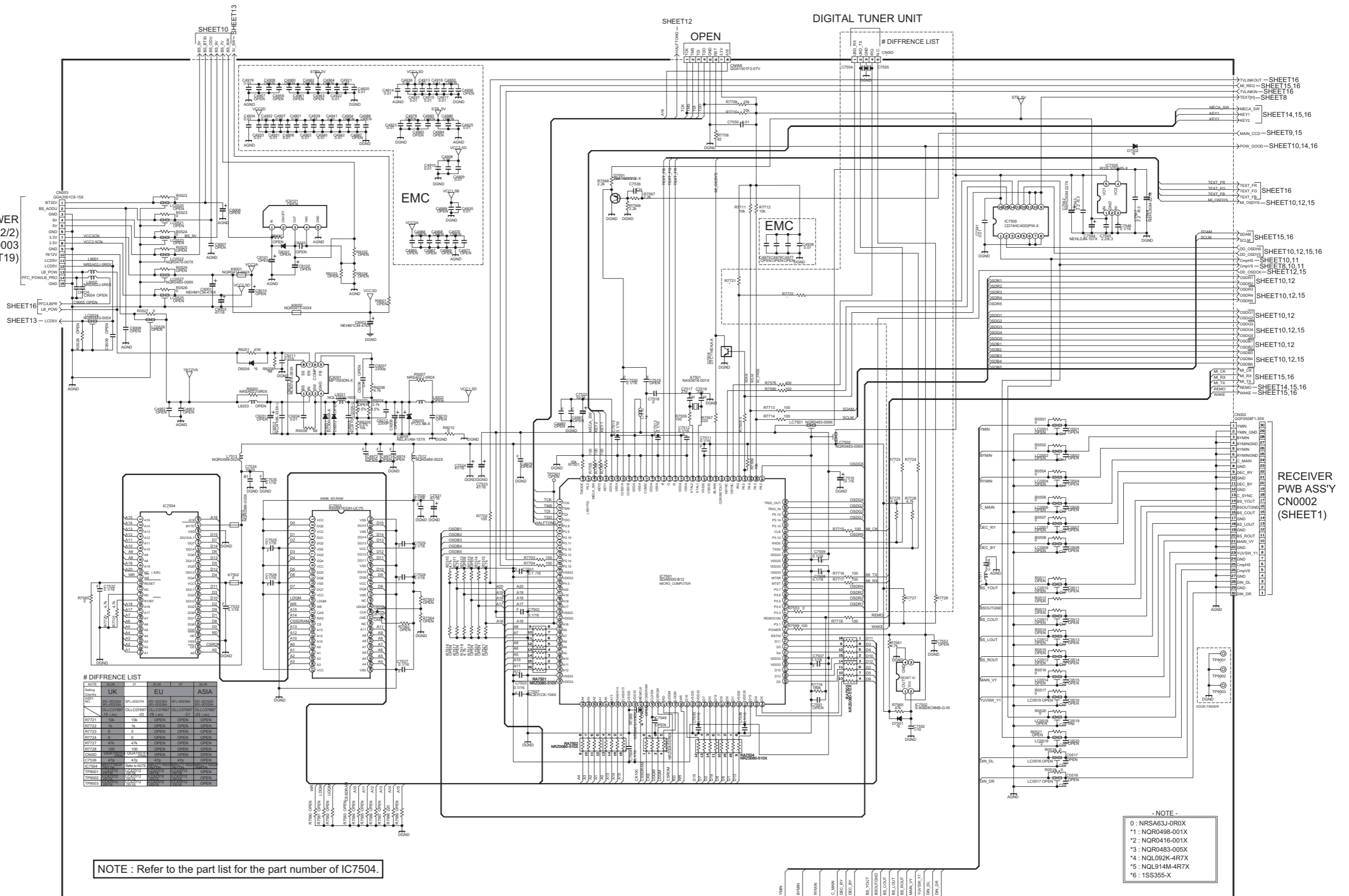


DIGITAL SIGNAL PWB ASS'Y (9/11)
LCA10557-70A (SFL-0D237A)

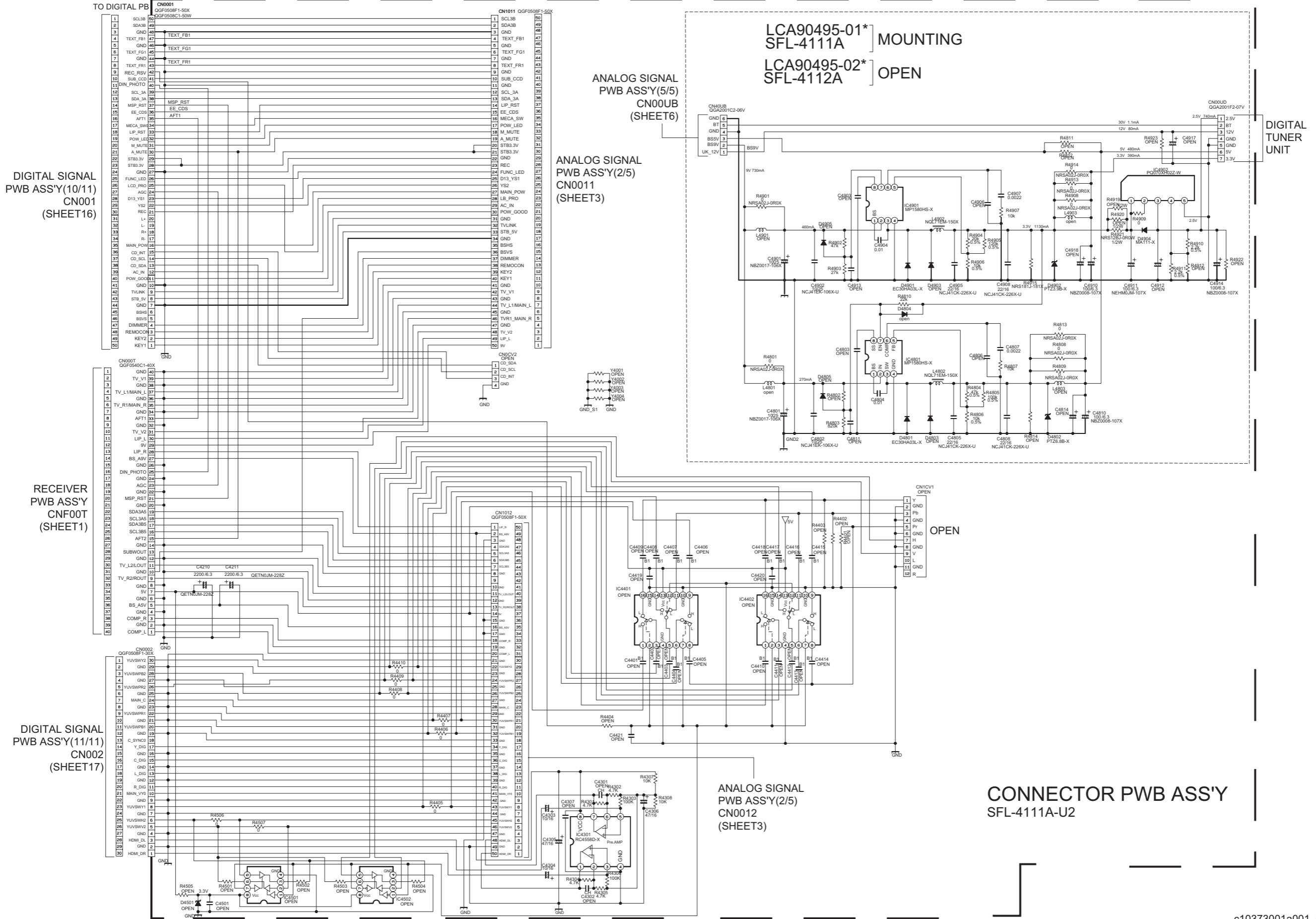


NOTE : Refer to the part list for the part number of IC7002.

[illegible]

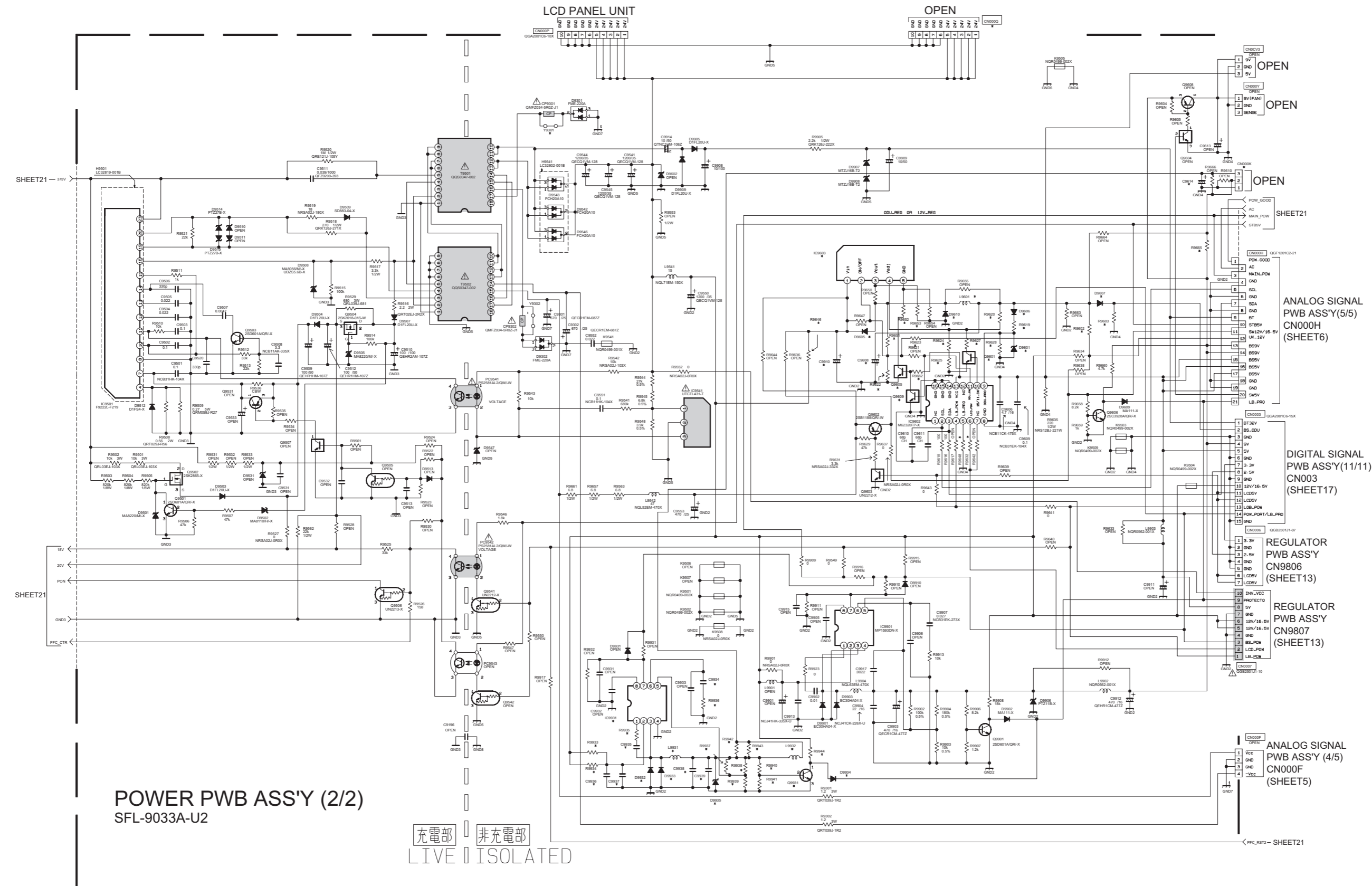


CONNECTOR PWB CIRCUIT DIAGRAM SHEET 18

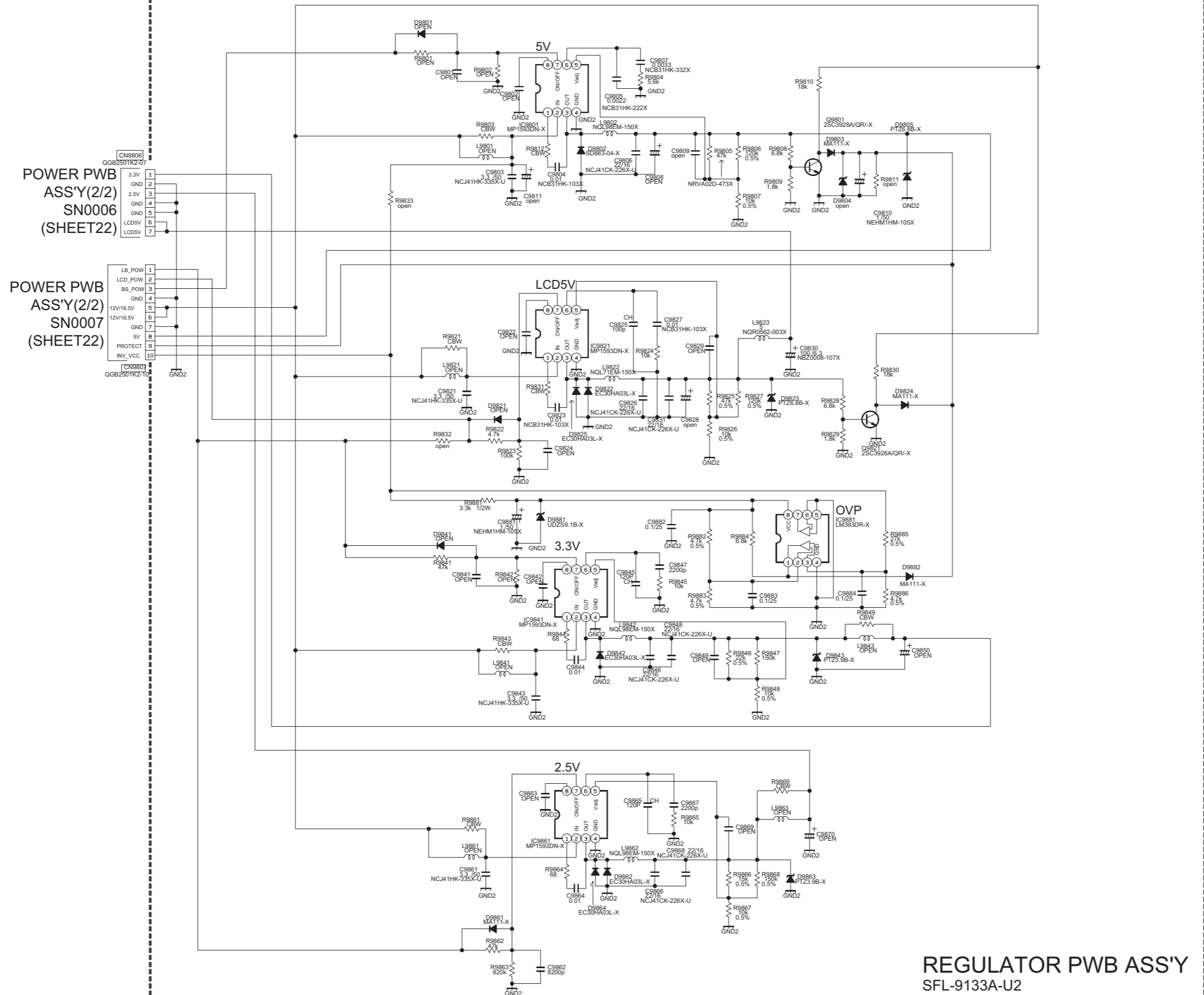


[illegible]

* DIFFERENCE LIST 2						
NOTE	UK	UK	EU	EU	EU	ASIA
ZINCH	32/26	37	32/26	37	37	31/30/26
ASP Y NO.	LC40463 C114	LC40463 C114	LC40463 C114	LC40463 C114	LC40463 C114	LC40463 C114
	SPL-3023A	SPL-3033A	SPL-3028A	SPL-3034A	SPL-3027A	
	DCL00314	DCL00814	DCL00378	DCL00378-42	DCL00383	
C0811	Q2C971-152	Q2C971-152	Q2C971-152	Q2C971-152	Q2C971-152	
C0813	Q2C971-152	Q2C971-152	Q2C971-152	Q2C971-152	Q2C971-152	
C0815	Q2C971-152	Q2C971-152	Q2C971-152	Q2C971-152	Q2C971-152	
L0201	Q0R1862-201	Q0R1862-201	Q0R1862-201	Q0R1862-201	Q0R1862-201	
R0214	S 15	S 15	S 15	S 15	S 15	
R0215	S 15	S 15	S 15	S 15	S 15	
R0221	Q0R0581-152	Q0R0581-152	Q0R0581-152	Q0R0581-152	Q0R0581-152	
R0221	Q0R0581-152	Q0R0581-152	Q0R0581-152	Q0R0581-152	Q0R0581-152	
D0001	OPEN	OPEN	OPEN	OPEN	OPEN	
D0015	OPEN	OPEN	OPEN	OPEN	OPEN	
C0151	OPEN	OPEN	OPEN	OPEN	OPEN	
P00001	OPEN	OPEN	OPEN	OPEN	OPEN	
Q0151	OPEN	OPEN	OPEN	OPEN	OPEN	
R0152	OPEN	OPEN	OPEN	OPEN	OPEN	
R0153	OPEN	OPEN	OPEN	OPEN	OPEN	
R0004	OPEN	OPEN	OPEN	OPEN	OPEN	
R0005	OPEN	OPEN	OPEN	OPEN	OPEN	
R0248	OPEN	OPEN	OPEN	OPEN	OPEN	
R0151	OPEN	OPEN	OPEN	OPEN	OPEN	
R0153	OPEN	OPEN	OPEN	OPEN	OPEN	
R0154	OPEN	OPEN	OPEN	OPEN	OPEN	
R0155	OPEN	OPEN	OPEN	OPEN	OPEN	
R0156	OPEN	OPEN	OPEN	OPEN	OPEN	
R0157	OPEN	OPEN	OPEN	OPEN	OPEN	
LF0002	G0Q1547-101	G0Q1547-101	G0Q1547-101	G0Q1547-101	G0Q1547-101	
	Q0Z0958	Q0Z0958	Q0Z0958	Q0Z0958	Q0Z0958	
C0816	Q0Z0958	Q0Z0958	Q0Z0958	Q0Z0958	Q0Z0958	



* DIFFERENCE LIST 1						
NOTE	JPN	JPN	US	US		
INCH	37	32/26	37	32/26		
ASS'Y Y'NO.	LC40463 ¹	LC40463 ¹	LC40463 ¹	LC40463 ¹		
	OLL00324	OLL00324	OLL00324	OLL00324		
C3608	GEH1E6107	GEH1E6107	OPEN	OPEN		
C3610	GEH1E148-476	GEH1E148-476	OPEN	OPEN		
C3612	OPEN	OPEN	OPEN	OPEN		
C3615	OPEN	OPEN	OPEN	OPEN		
C3616	OPEN	OPEN	OPEN	OPEN		
C3617	OPEN	OPEN	OPEN	OPEN		
C3618	OPEN	OPEN	OPEN	OPEN		
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D4670	OPEN	OPEN	OPEN	OPEN		
D4671	OPEN	OPEN	OPEN	OPEN		
D4672	OPEN	OPEN	OPEN	OPEN		
D4673	OPEN	OPEN	OPEN	OPEN		



RECEIVER PWB PATTERN [SOLDER SIDE]



TU3001
 TU3002
 7-12.NC
 6.VIF
 5.AS
 4.DA
 3.CL
 2.5V(TU)
 1.30V
 18.SIF_OUT
 17.DEEN
 16.DET_OUT
 15.AFOUT
 14.5V(IF)
 13.RFAGC
 LCB10594

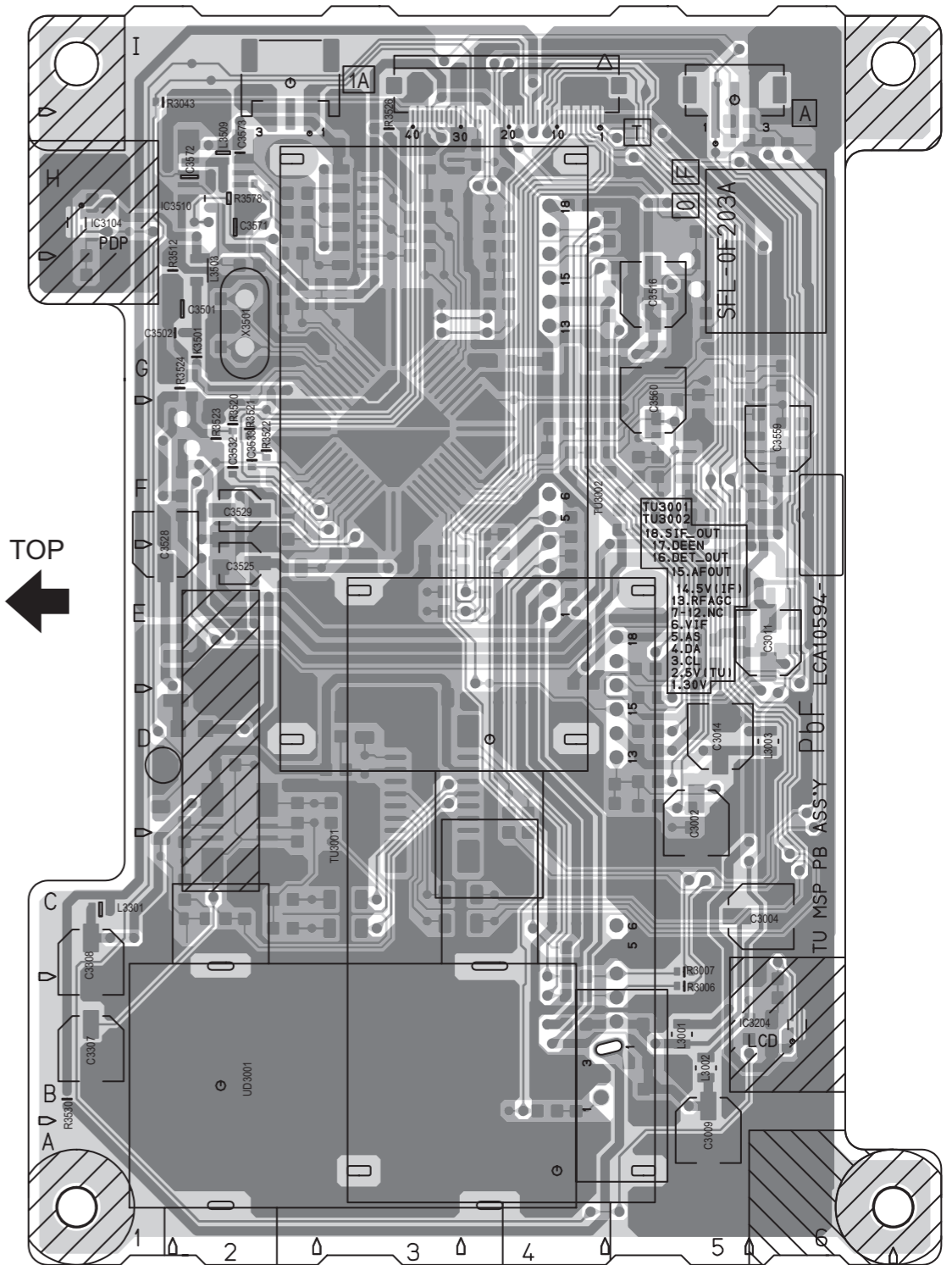
UL MARK

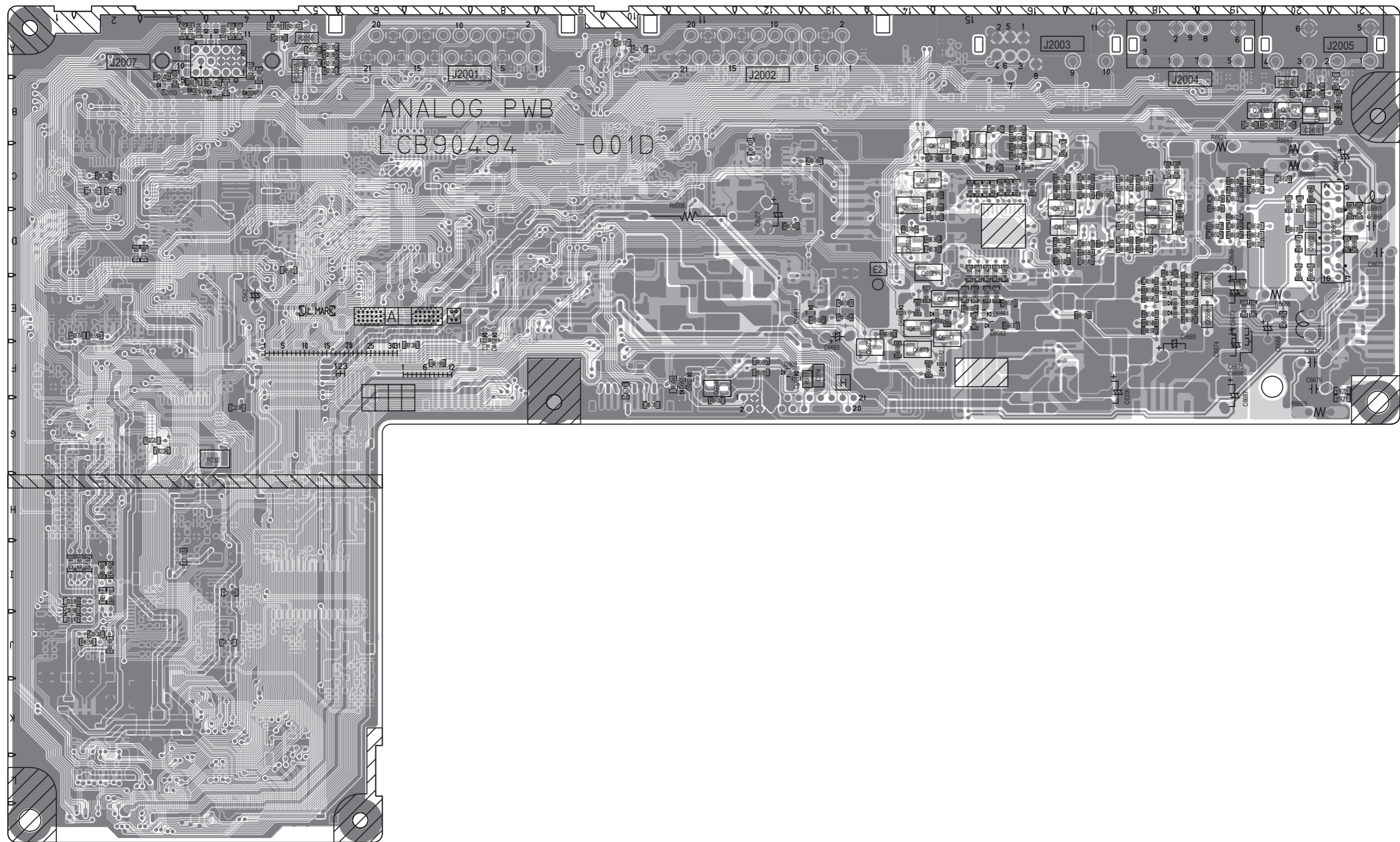
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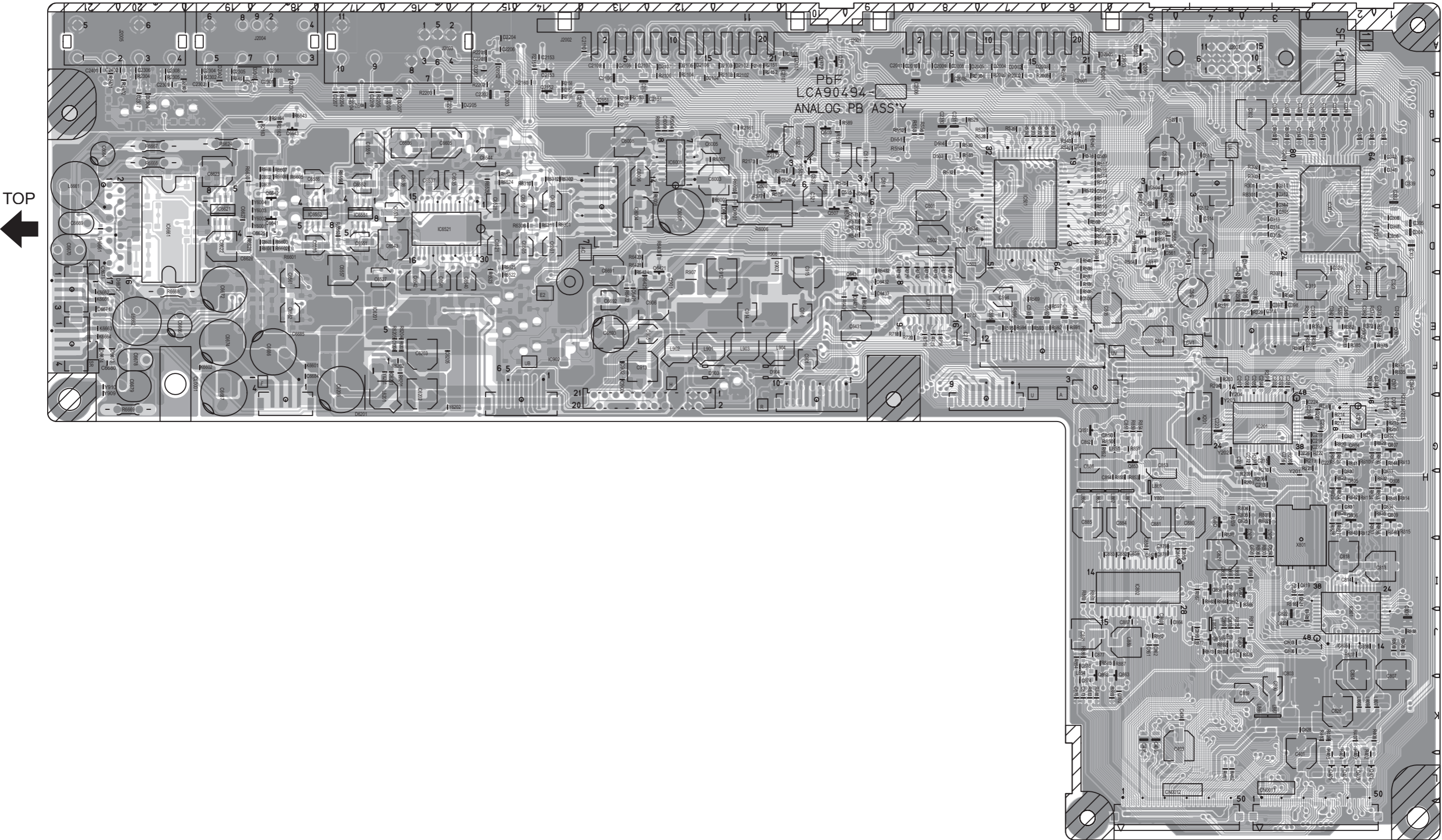
LCB10594 -001A

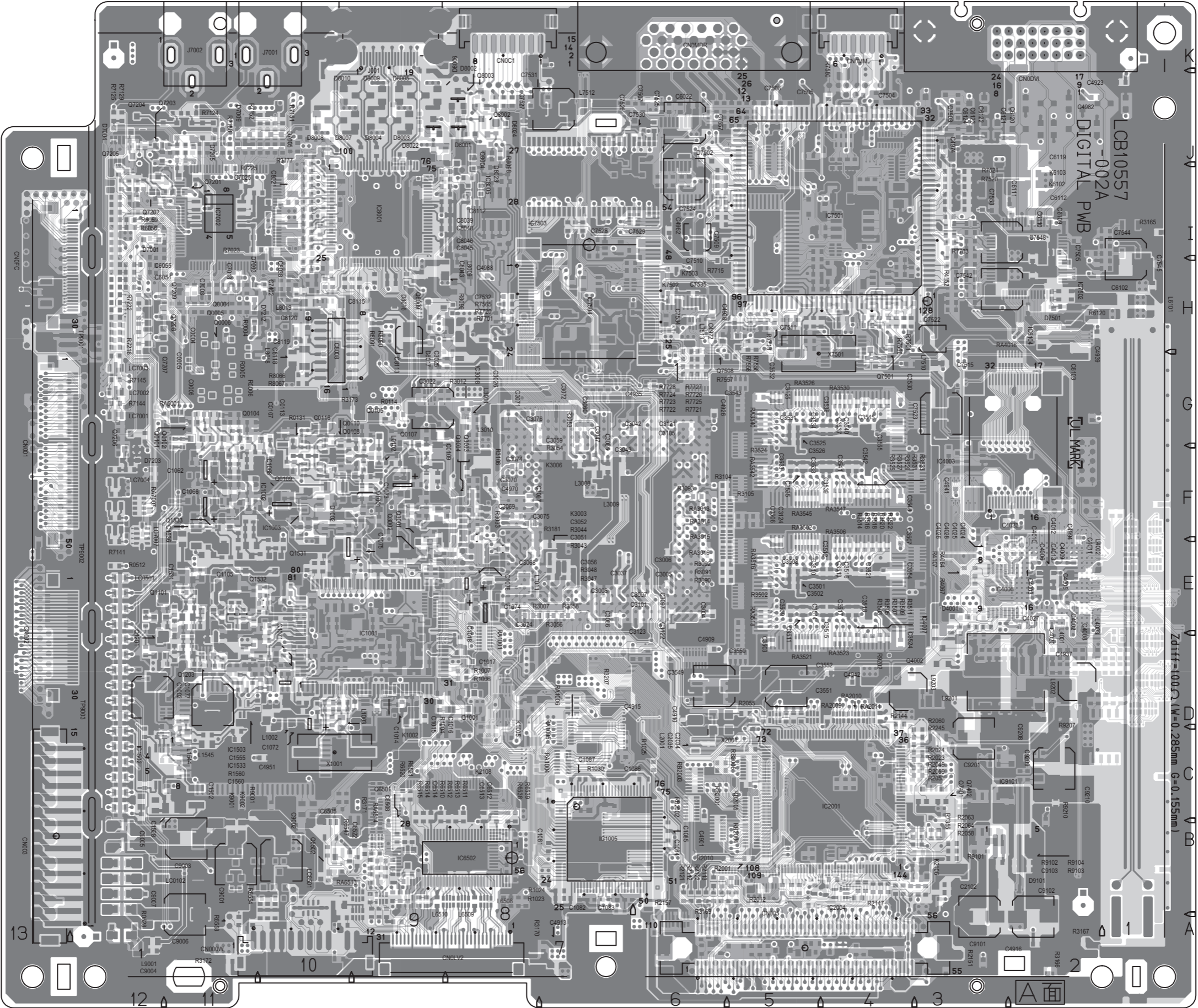
TU MSP PWE

TOP
←

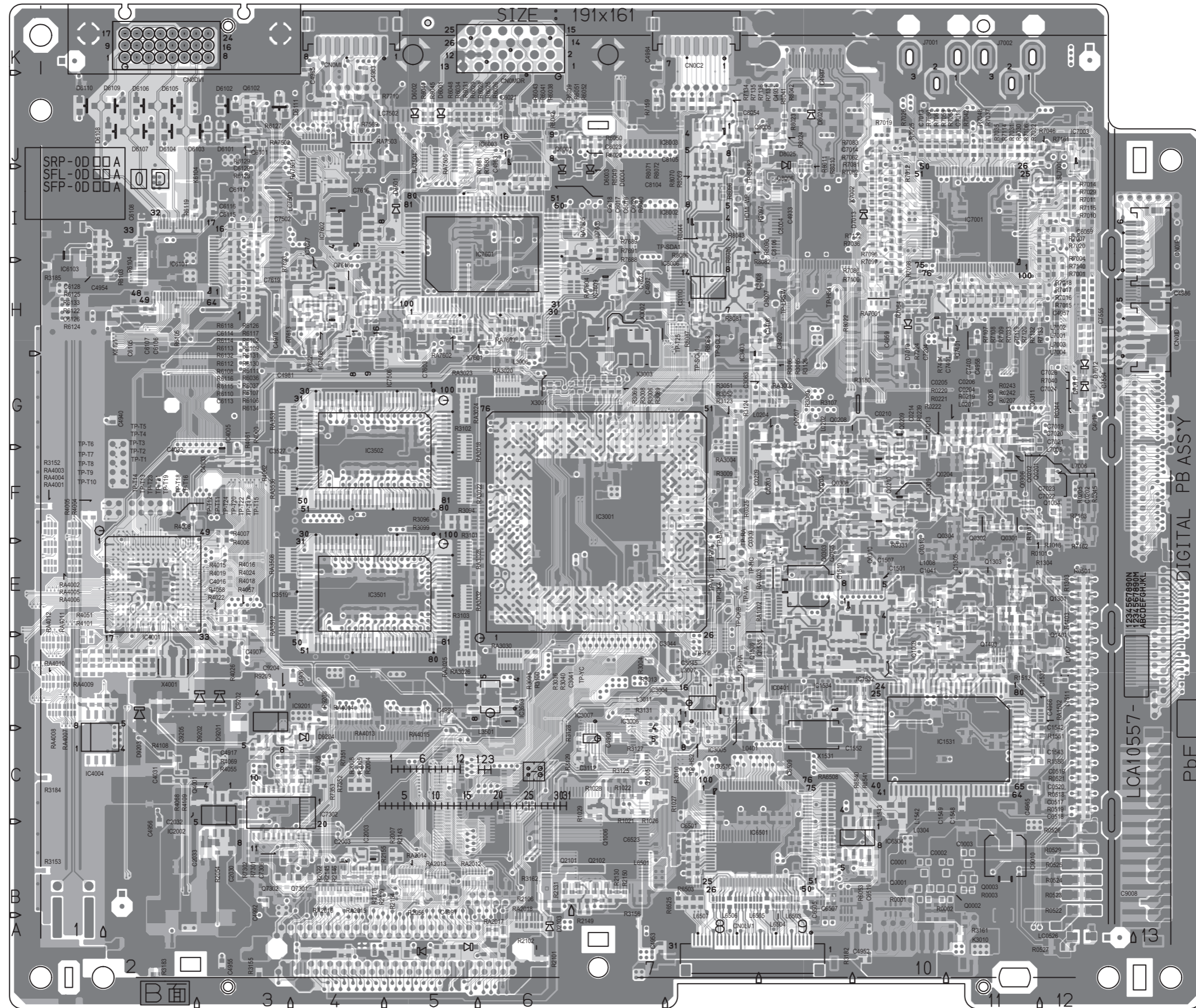




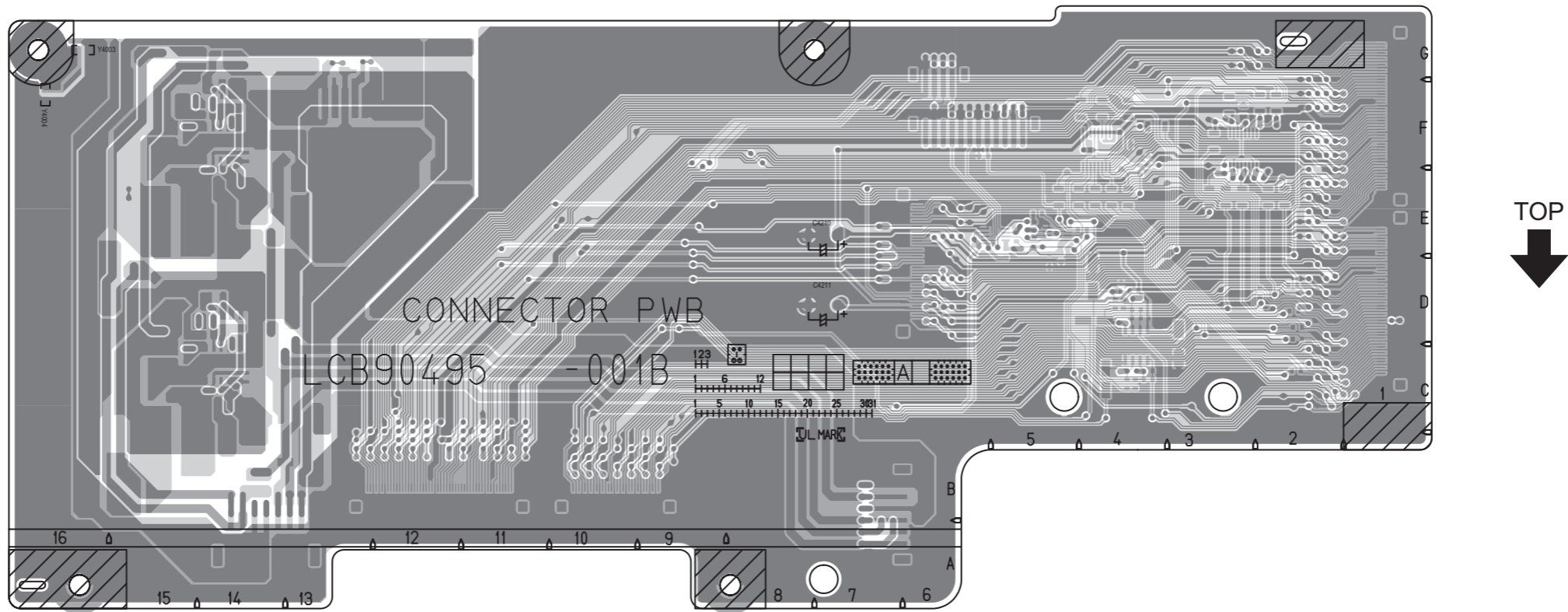




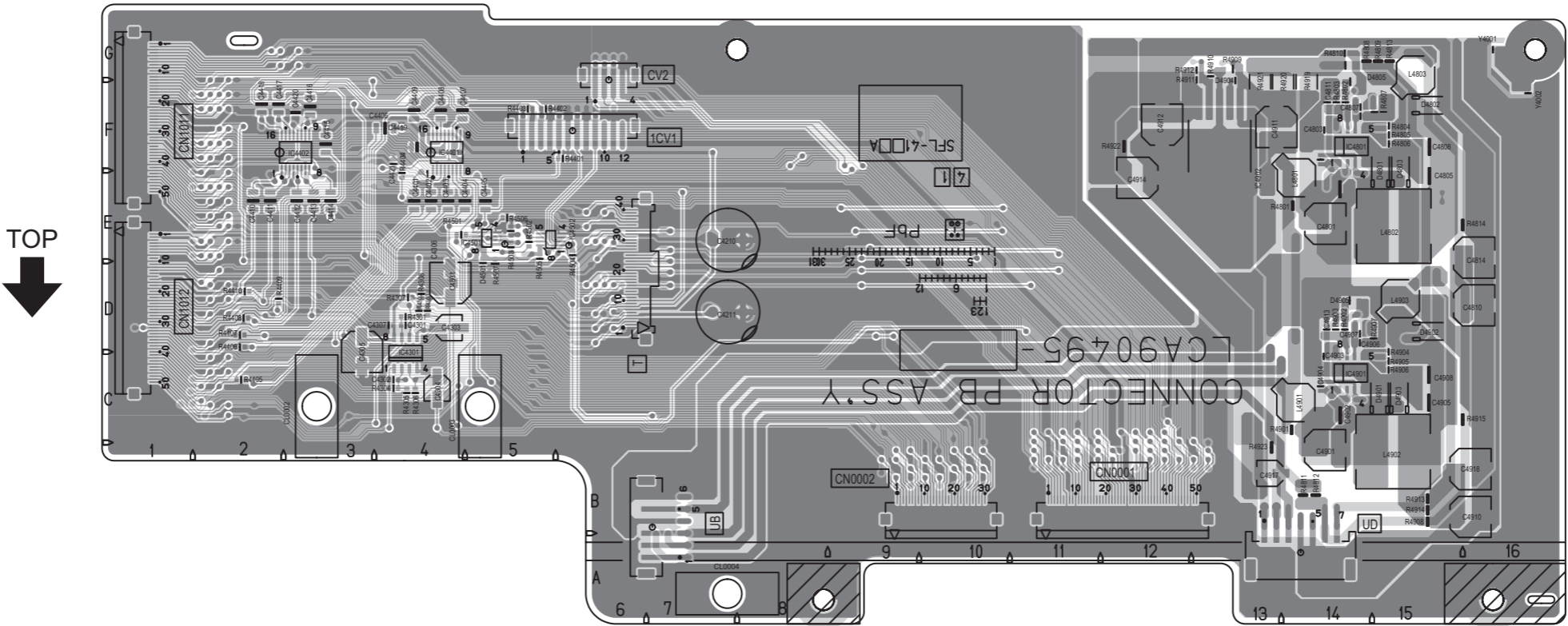
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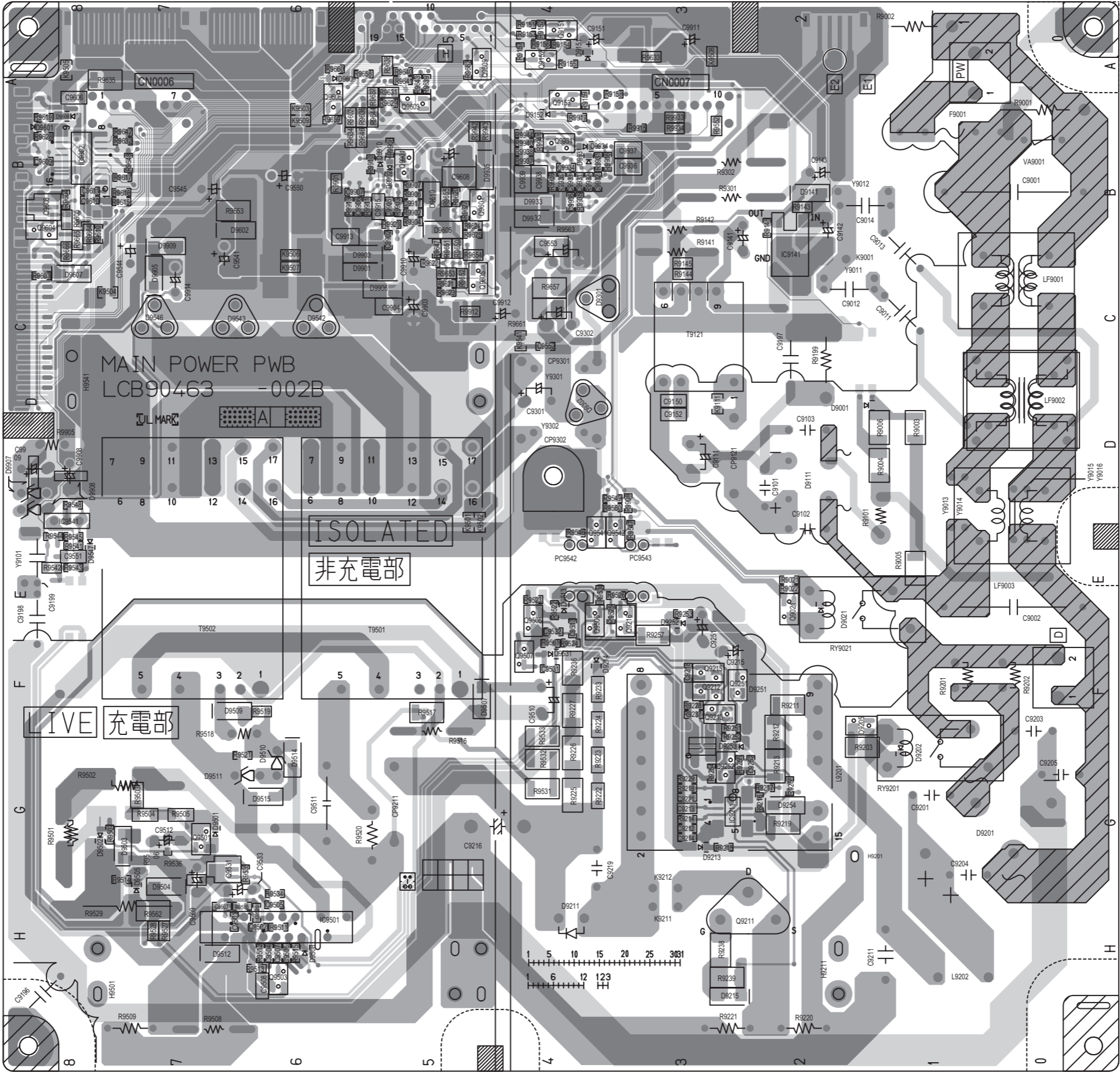
CONNECTOR PWB PATTERN [SOLDER SIDE]

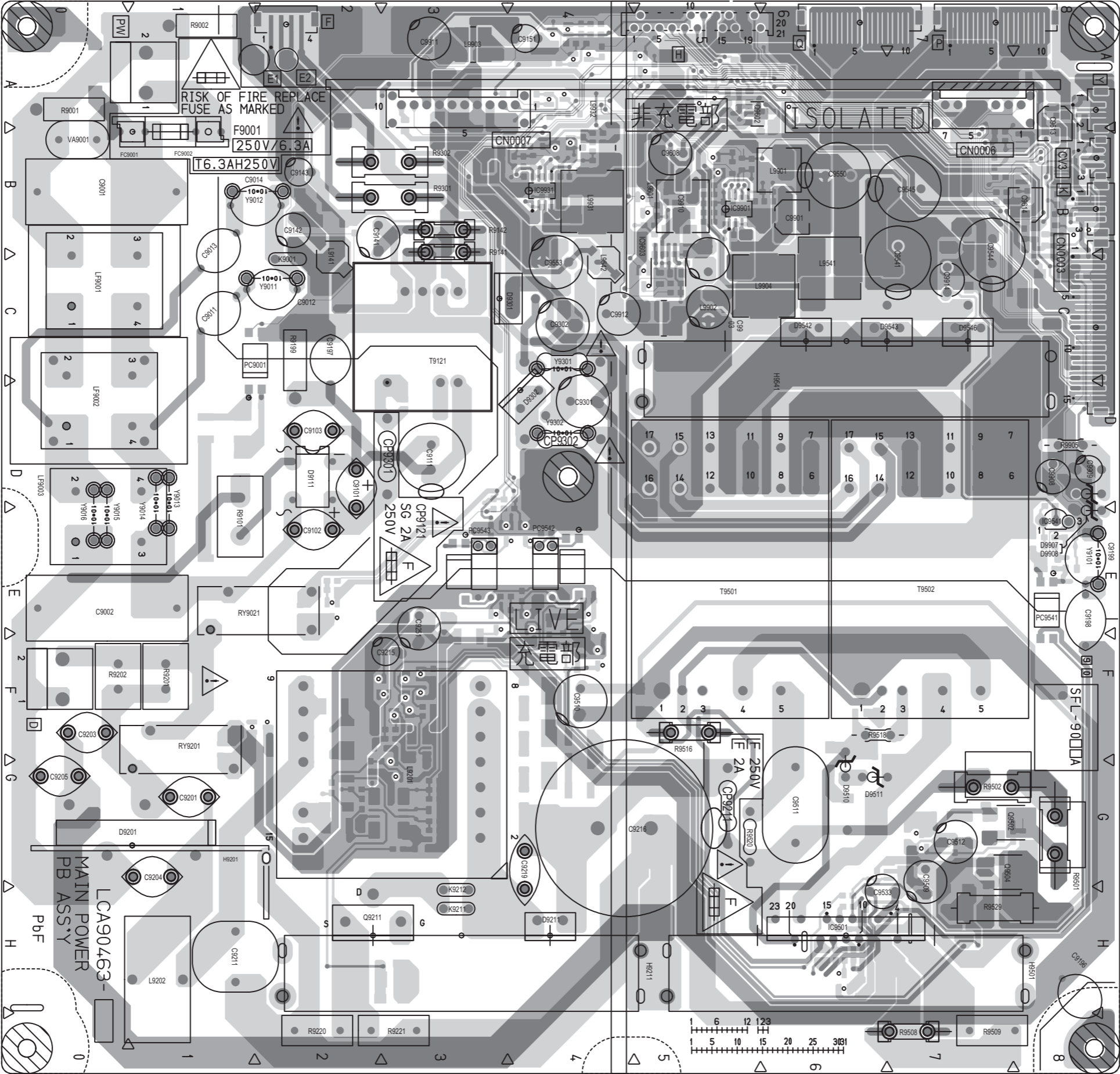


CONNECTOR PWB PATTERN [PARTS SIDE]



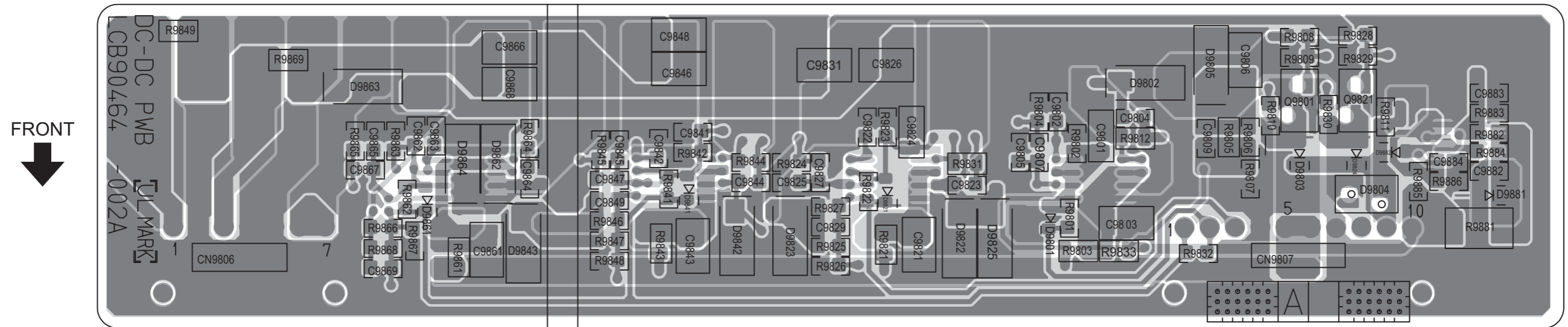
TOP
←



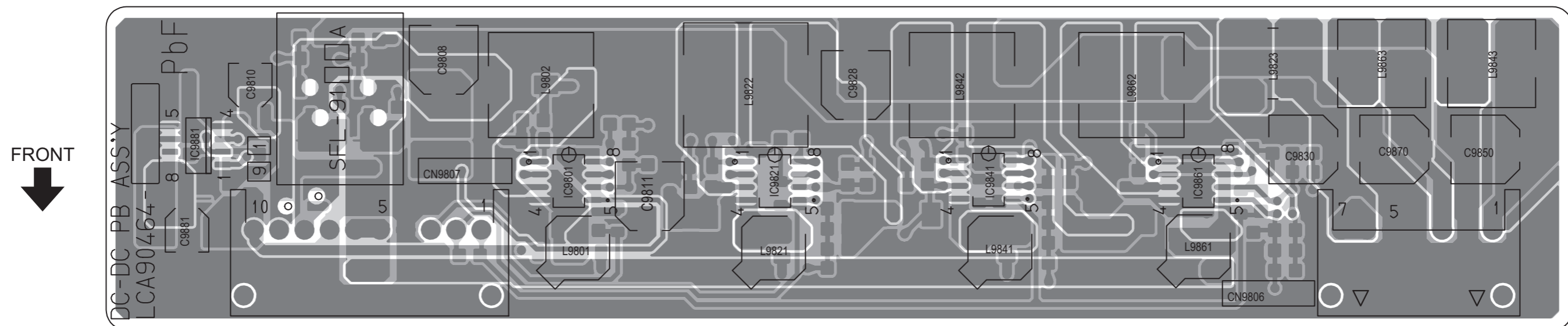


TOP
➔

REGULATOR PWB PATTERN [SOLDER SIDE]



REGULATOR PWB PATTERN [SOLDER SIDE]



VOLTAGE CHARTS

<RECIEVER PWB>

[P.2-7 - P.2-8]

MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC3501		Q3001	
1 5.0	E 2.1		
2 1.5	C 9.0		
3 1.5	B 2.8		
4 0		Q3502	
5 2.2	E 0		
6 2.3	C 9.0		
7 0.3	B 0		
8 0	Q3503		
9 0	E 0		
10 2.5	C 5.0		
11 5.1	B 0		
12 4.9		TU3002	
13 4.9	1 32.1		
14 2.2	2 5.0		
15 2.5	3 5.1		
16 1.2	4 5.2		
17 1.2	5 0		
18 0.3	6 NC		
19 5.0	7 NC		
20 0	8 NC		
21 0.4	9 NC		
22 5.0	10 NC		
23 0	11 NC		
24 0	12 NC		
25 0	13 1.4		
26 2.0	14 5.0		
27 2.1	15 3.2		
28 0	16 3.0		
29 0	17 2.3		
30 3.8	18 0.2		

<ANALOG SIGNAL PWB>

[P.2-9 - P.2-10]

MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC501		Q507	
1 4.1			
2 4.4			
3 4.3			
4 4.4			
5 4.4			
6 0			
7 0			
8 3.9			
9 4.5			
10 3.9			
11 4.4			
12 4.3			
13 0			
14 0			
15 3.8			
16 4.4			
17 3.9			
18 4.4			
19 4.2			
20 0			
3 7.9			
22 3.9			
23 3.9			
24 3.9			
25 4.4			
26 4.3			
27 0			
28 4.9			
29 4.5			
30 3.9			
31 4.4			
32 9.0			
33 4.8			
34 4.8			
35 0			
4 1.2			
5 5.1			
37 4.4			
38 4.5			
39 3.7			
40 4.4			
41 4.1			
42 9.0			
43 4.5			
44 4.2			
45 4.5			
46 3.7			
47 4.4			
48 0			
49 4.7			
50 4.4			
51 4.4			
52 4.5			
53 4.3			
54 4.5			
55 3.7			
56 3.9			
57 0			
58 4.2			
59 4.4			
60 3.9			

MODE PIN NO.	DC (V)
61	4.4
62	4.4
63	4.2
64	4.4
IC502	
1	2.7
2	2.8
3	8.9
4	2.6
5	0
6	9.0
IC503	
1	4.3
2	2.7
3	9.0
4	2.5
5	0
6	3.0
Q507	
E	3.6
C	0
B	3.0
Q508	
E	2.7
C	0
B	2.1
Q510	
E	2.4
C	0
B	1.8
Q511	
E	0
C	0
B	3.1
Q512	
E	9.0
C	0
B	9.0
Q513	
1	0
2	0
3	0
4	0
5	0.7
6	9.0
Q2051	
E	0
C	0
B	0
Q2052	
E	0
C	0
B	0
Q2053	
E	0
C	0
B	0
Q2151	
E	0
C	0
B	0
Q2152	
E	0
C	0
B	0
Q2153	
E	0
C	0
B	0
Q2171	
E	4.9
C	4.5
B	0
Q2172	
E	0
C	4.9
B	0
Q2173	
E	0
C	0
B	3.7
Q2451	
E	0
C	0
B	0
Q2452	
E	0
C	0
B	0
Q2453	
E	0
C	0
B	0
CN00UA	
1	0
2	0
3	0



Victor Company of Japan, Limited
AV & MULTIMEDIA COMPANY DISPLAY CATEGORY 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA299)



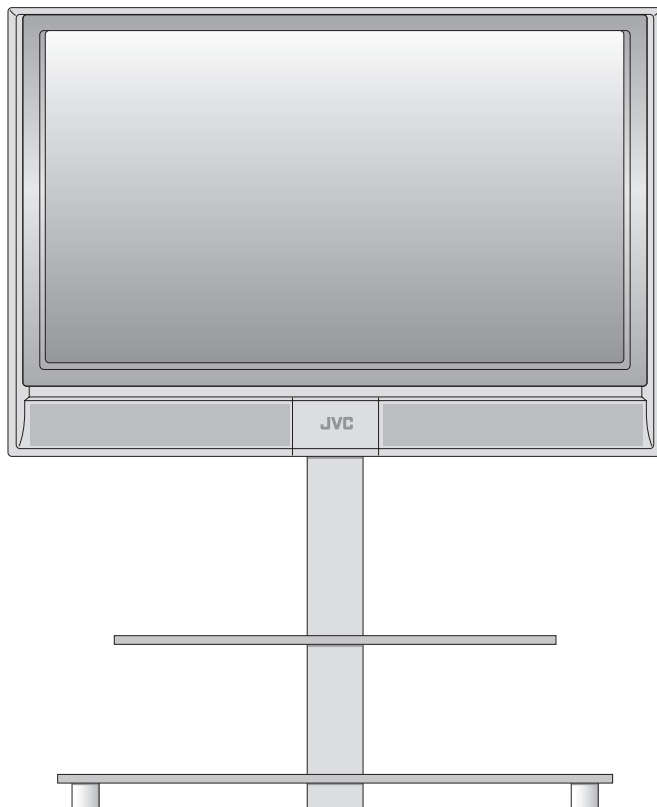
Printed in Japan
VPT

JVC

LT-37DS6FJ

WIDE LCD PANEL TV

INSTRUCTIONS



HD
ready

DynaPiX
Powered by D.L.S.T.

InteriArt

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

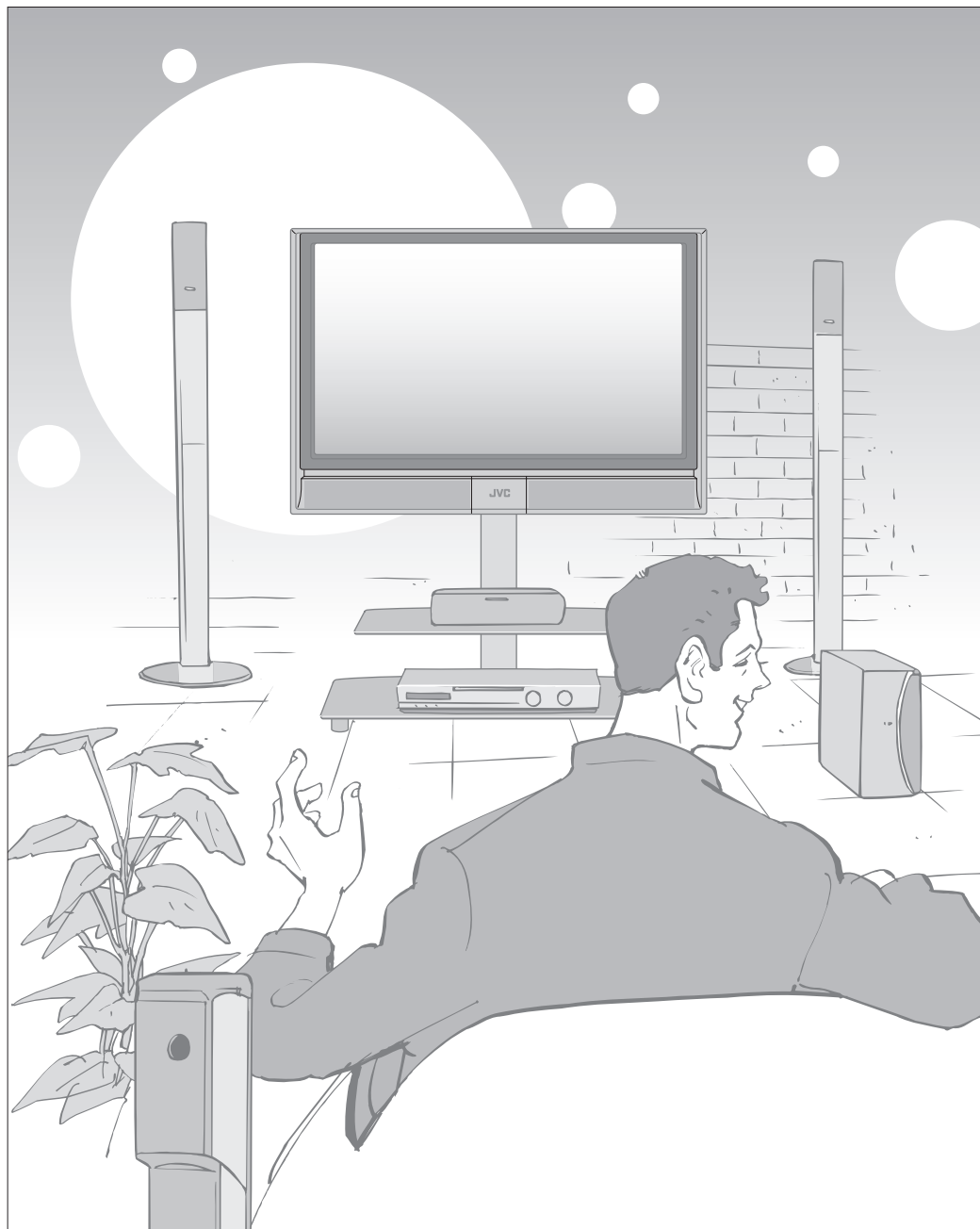
T-V LINK

DVB[®]
Digital Video
Broadcasting

Trade Mark of the DVB Digital Video Broadcasting
Project (1991 to 1996) Number : 3615

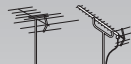


Expanding the world of

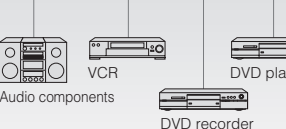
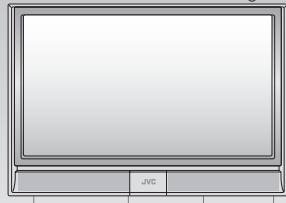


beautiful images

Enjoy rich multi-media with JVC



VHF / UHF / DVB-T broadcasting



Contents

*In this manual,
ATV : analogue terrestrial broadcasting (VHF/UHF)
DTV : digital terrestrial broadcasting (DVB-T)

First things first!

●Warning	4
----------------	---

Getting started

●Names of all the parts	6
●Basic connections	8
●Connecting external devices	10
●Initial settings	12
●Editing DTV channels	14
●Editing ATV channels	16

Let's try it out

●Enjoying your new TV!	18
· TV / Teletext / EPG / Video / Menu	
●Watching TV	20
●Using EPG	22
●Viewing teletext	24
●Watching videos / DVDs	26

Try the advanced features

●Useful functions	28
· Multi-picture / Favourite channel	
· Sleep timer / Child lock	

Just the way you like it

●Customising your TV	32
●Using DTV	34
●Advanced picture adjustment	40
· Reduce noise / Watch a more natural picture	
· Set the aspect ratio, etc.	

When you have trouble

●Troubleshooting	42
●CH/CC List	45
●Technical information	46
●Specifications	47

IMPORTANT!

PREPARE

USE

SETTINGS

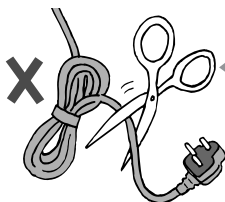
TROUBLE?

Warning

Please follow all the guidelines below

Never cut or damage the power cord!

- If the AC plug is not the right shape, or the power cord is not long enough, use an appropriate plug adapter or extension cable.
(Consult your retailer.)



Never try to repair the TV yourself!

➔ If the problem cannot be solved in "Troubleshooting" (P. 42), unplug the power cord and contact your retailer.

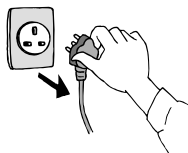
- If you have cut or damaged the power cord.
 - ➔ "Technical information" (P. 46)
- To change the fuse in UK plugs
 - ➔ "Technical information" (P. 46)

Follow this manual regarding setup!

- Connect only to a 110-240V, 50/60Hz AC outlet.

Unplug the power cord when going out!

- The power buttons on the remote control and the TV unit can not completely turn off the TV. (Make appropriate arrangements for bedridden people.)



Never place anything on the TV!

- Placing liquids, naked flames, cloths, paper, etc. on the TV may cause a fire.



Never insert objects into the cabinet openings!

- It may cause a fatal electric shock. Take care when children are near.



■ For more details on installation, usage and safety ➔ Consult your retailer

Never expose to rain or moisture!

- To prevent fire or electric shock, never allow liquids to enter the unit.



Do not allow the TV to fall!

- Do not rest your elbows on, or allow children to hang from the TV. There is a risk that the TV will fall and cause injuries.

IMPORTANT!

PREPARE

USE

SETTINGS

TROUBLE?

If the TV is damaged or behaving strangely, stop using it at once!

- ➔ Unplug the power cord and contact your retailer.

Hold the TV so as not to scratch the screen!

- Do not touch the screen when carrying the TV.

Do not carry the TV on your own!

- In order to prevent accidents, ensure that the TV is carried by two or more people.



When attaching the TV to the wall, use the optional JVC wall mounting unit!

- Consult a qualified technician.
- See the included manual on mounting procedures.
- JVC assumes no responsibility for damage due to improper mounting.

Never dismantle the rear panel!

- It may cause an electric shock.

Never obstruct the ventilation holes!

- It may cause overheating or a fire.

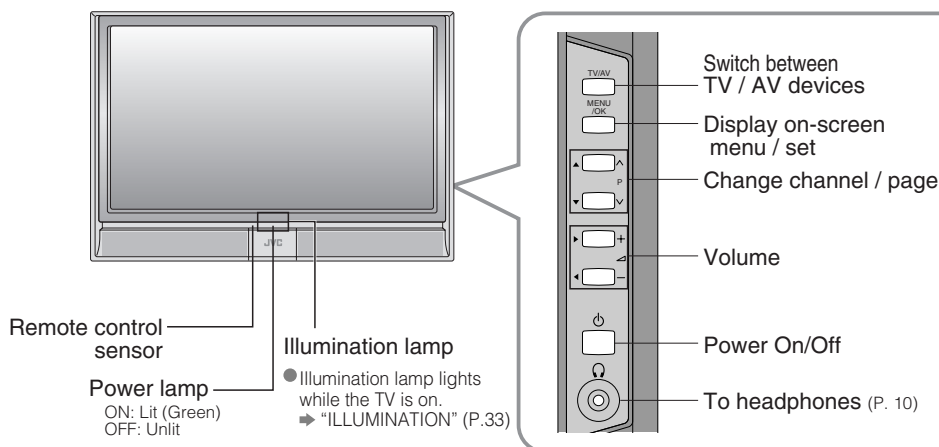
Handle LCD panel with care!

- Use a soft, dry cloth when cleaning.

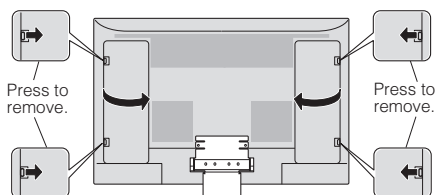
Never listen to headphones at high volume!

- It may damage your hearing.

Names of all the parts

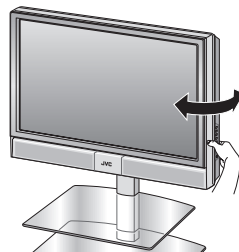


Remove the terminal covers



- If the cover cannot be closed due to the cables being in the way
➔ Do not force the cover to close (leave it open).
- Connecting terminals on the back of the TV
➔ Connecting External devices (P. 10)

Change the direction of TV



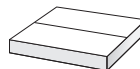
Check accessories



Remote control
(RM-C1813H)



AA/R6 Batteries
(For confirming
the TV works)



Floor stand

Attaching the floor stand

The floor stand is supplied separately. Please attach it to the LCD TV. For details, see the instruction manual which is included with the floor stand.

Mute

Power On/Off

Switch between VCR/TV/DVD
(P. 26)

Change the channel/page

Channel information
(P. 20)

Watch video, etc. (P. 26)

To ATV/DTV

To menu (P. 32)

Select and
confirm settings in menusTo the previous channel
To teletext (P. 24)

Volume

Change the channel/page

The coloured buttons can perform different functions according to the situation.

■ When viewing teletext (P. 24)

Follow on-screen instructions.

■ Other uses

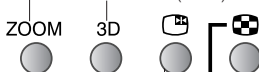


Follow instructions
in on-screen guides.

■ When watching TV/Video

Change the aspect ratio (P. 20)

Turn on 3D sound (P. 20)

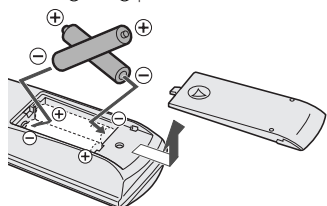


Take a snapshot
of the screen (P. 20)

View in multi-picture mode (P. 28)

■ Insert the batteries

Use two AA/R6 dry cell batteries.
Insert the batteries from the - end, making
sure the ⊕ and ⊖ polarities are correct.



JVC
TV

■ When watching DTV

View subtitles (P. 20)

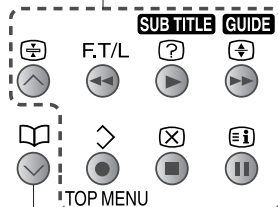
View the electronic
programme guide (EPG)(P. 22)

SUB TITLE GUIDE



■ When watching ATV (P. 16)

when viewing teletext (P. 24)



■ When choosing a favourite channel (P. 29)

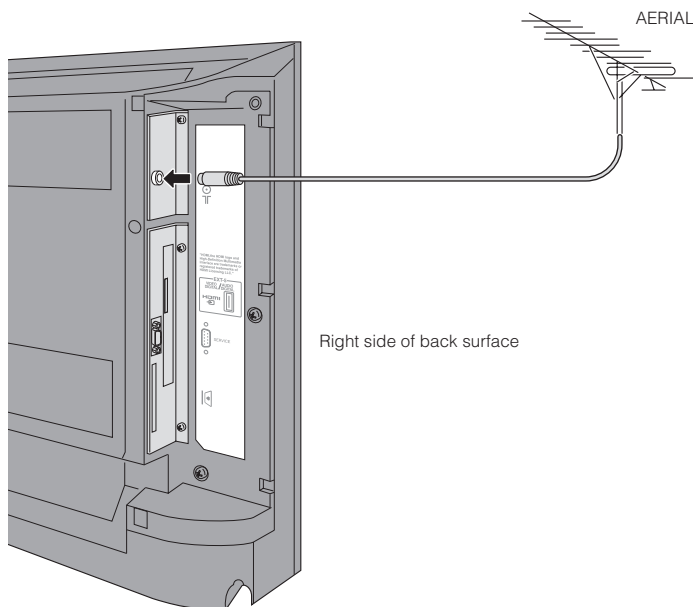
■ When operating a JVC VCR or DVD (P. 26)

Basic connections

Please read the user manuals of each device carefully before setup.
It is necessary to connect an aerial to watch TV.

■ **Connect with other devices** ➔ "Connecting external devices" (P. 10)

Connect the aerial



- After all the connections have been made, insert the plug into an AC outlet.

Care when setting

■ Power requirements

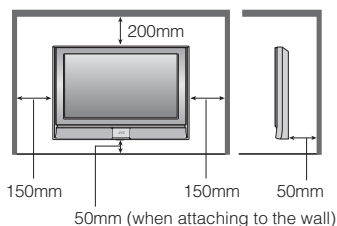
- Connect the power cord only to a 110-240V, 50/60Hz AC outlet.

■ When attaching the TV to the wall, use the optional JVC wall mounting unit

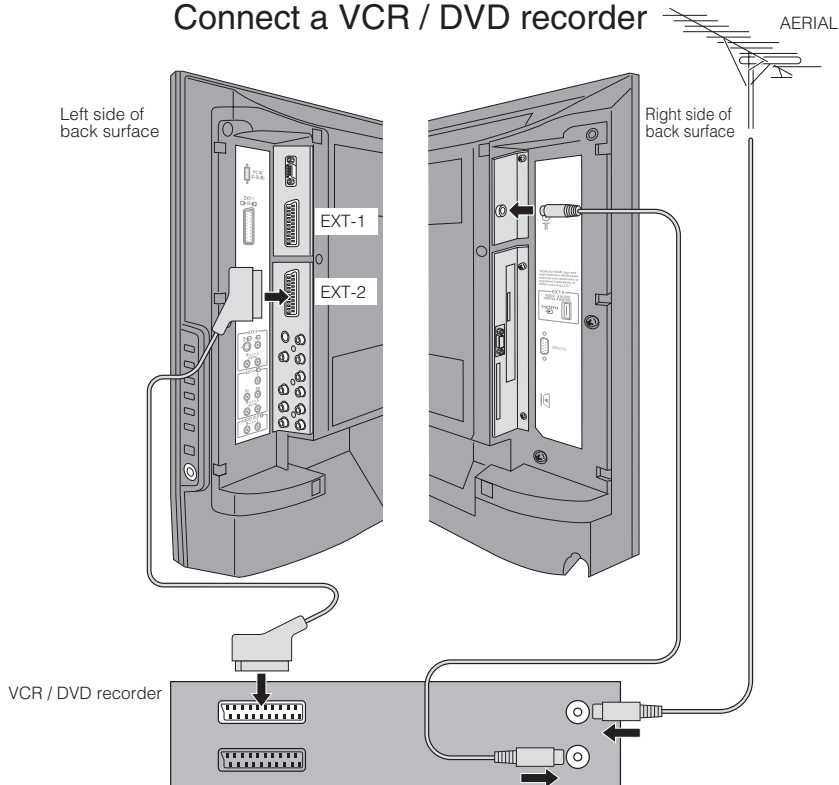
- Consult a qualified technician.
- See the included manual on mounting procedures.
- JVC assumes no responsibility for damage due to improper mounting.

■ Installation requirements

- To avoid overheating, ensure the unit has ample room.



Connect a VCR / DVD recorder



- After all the connections have been made, insert the plug into an AC outlet.
- Connect T-V LINK compatible recording device to EXT-2.
- T-V LINK ➔ "What is T-V LINK?" (P. 12)

Watch pay-per-view

Contract with a broadcasting company beforehand.

① Unplug the power cord

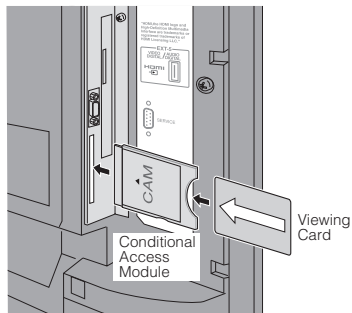
② Insert the Viewing Card into the CAM.

③ Insert the CAM.

④ Plug the power cord, and turn the power on.

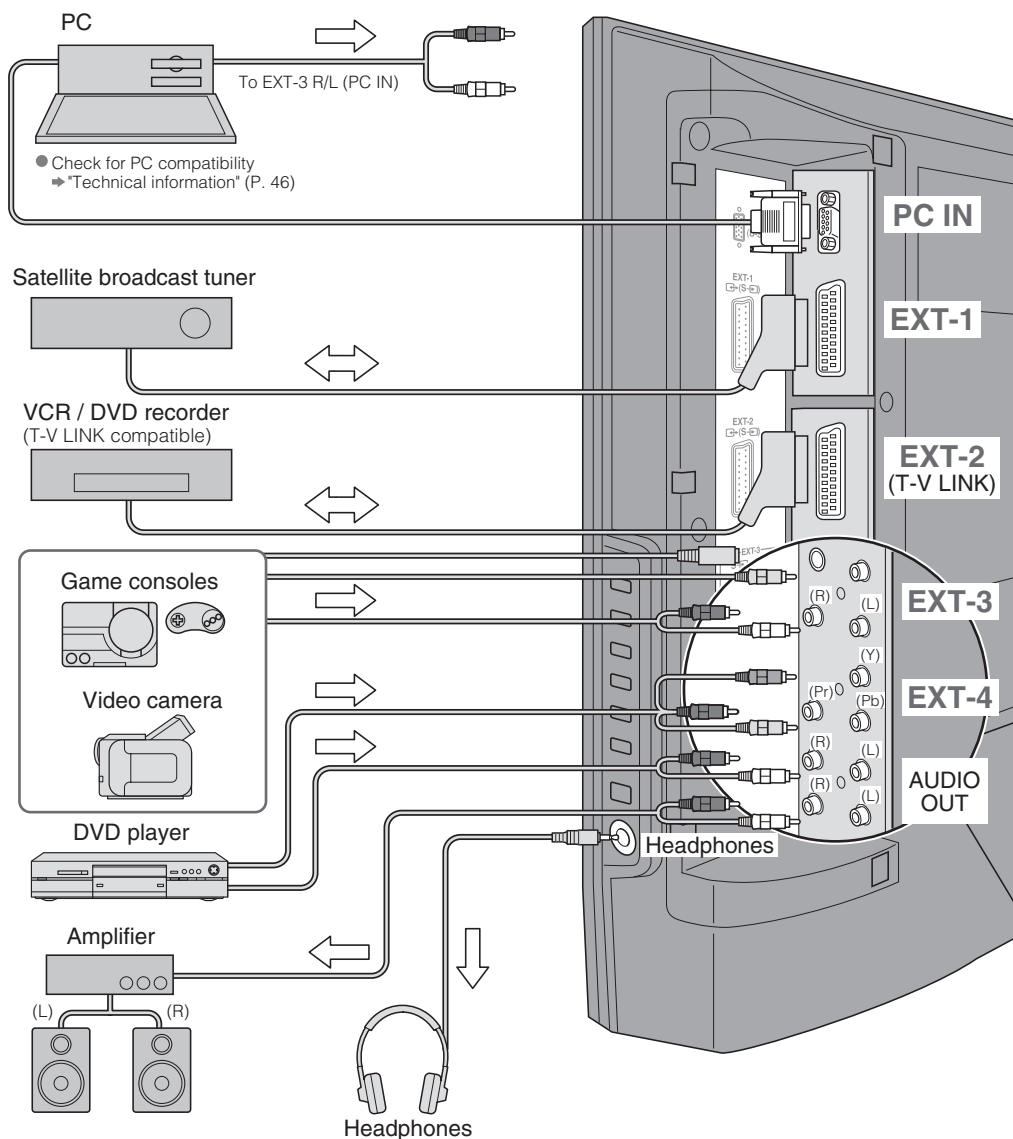
- Set pay-per-view ➔ (P. 38)

- The CAM and Viewing Card will be sent by the broadcasting company after contracting with them.



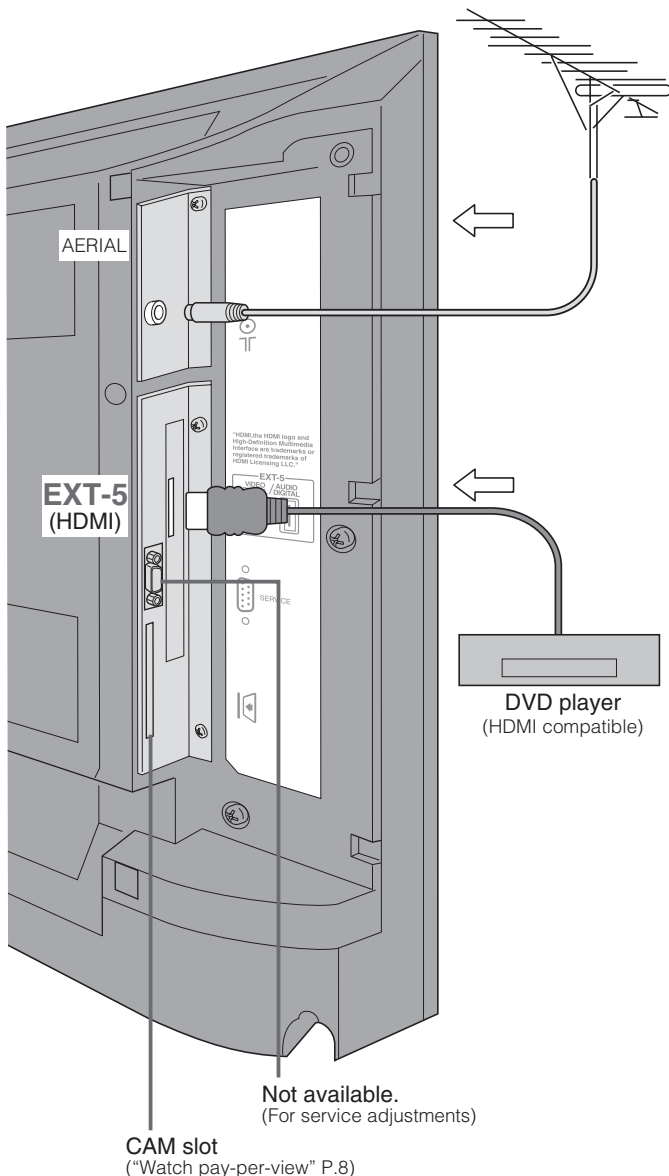
Connecting external devices

You can connect many different devices to the rear panel of the TV.
Please read the user manuals of each device before setting up.
(Connecting cables are not supplied with this TV.)



VCR / DVD / other devices

➡ : signal direction



■ Connect DVI devices

➡ (P. 46)

■ T-V LINK ➡ (P. 12)

EXT-1 Watching videos

Output ↑	Input ↓
· Composite signal	· Composite signal / RGB / S-VIDEO
· Sound L / R	· Sound L / R

● Use S-VIDEO ➡ "S-IN" (P. 27)

EXT-2 Dubbing videos Using T-V LINK

Output ↑	Input ↓
· Composite signal	· Composite signal / RGB / S-VIDEO
· S-VIDEO (only for DTV)	· Sound L / R
· Sound L / R	
· T-V LINK	

- Use S-VIDEO ➡ "S-IN" (P. 27)
- Use DTV S-OUT ➡ "S-OUT" (P. 27)
- Select dubbing sources ➡ "DUBBING" (P. 27)
- Connect a decoder ➡ "DECODER (EXT-2)" (P. 33)

EXT-3 Watching videos

Output ↑	Input ↓
	· Composite signal / S-VIDEO
	· Sound L / R

EXT-4 Watching DVDs

Output ↓	Input ↑
	· Component signal (P. 47)
	· Sound L / R

● Component auto select ➡ (P. 33)

EXT-5 Connecting HDMI devices

Output ↑	Input ↓
	· HDMI signal (P. 47)

● HDMI setting ➡ (P. 33)

AUDIO OUT

Listening to the TV on external speakers

Output ↓
· Sound L / R

IMPORTANT!

PREPARE

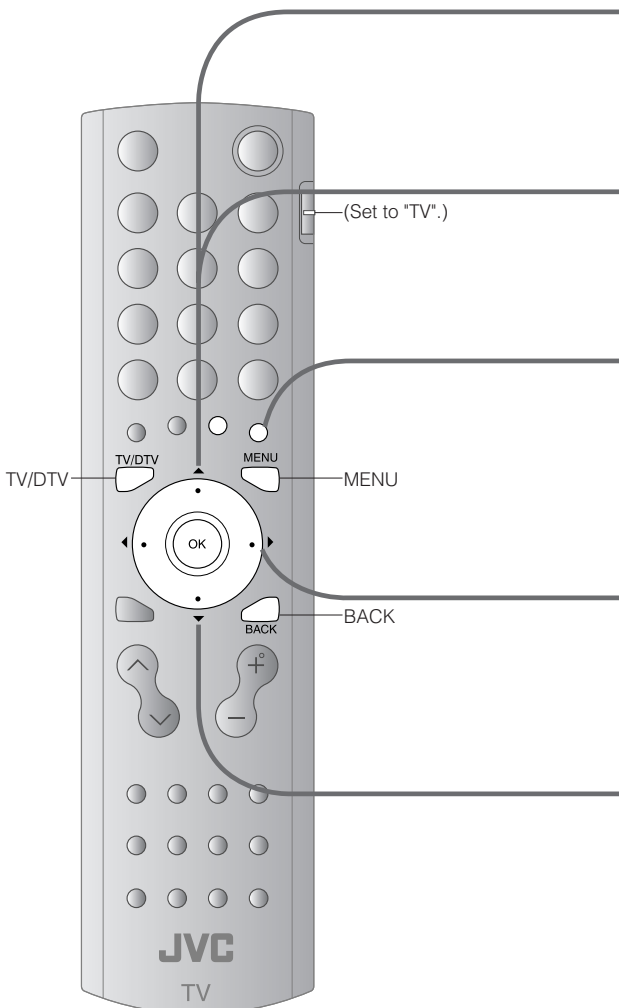
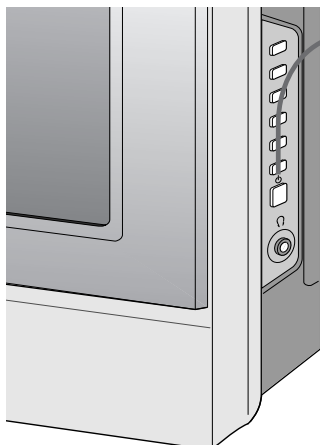
USE

SETTINGS

TROUBLE?

Initial settings

Register DTV/ATV channels on TV. These channels can be edited later.
(In this manual, digital broadcasting is indicated as DTV, and analogue broadcasting as ATV.)



■ To the previous screen → BACK

■ Exit → TV/DTV

■ If the "JVC" logo does not appear or if you wish to make changes later

→ DTV : "Automatic Search" (P. 38)
ATV : "AUTO PROGRAM" (P. 33)

What is "T-V LINK"?

Connecting the TV to a T-V LINK compatible device allows :

- ATV Channels on the TV to be instantly registered on the device.
 - The "DIRECT REC" function to be used.
- "Technical information" (P. 46)

■ T-V LINK variations

"T-V LINK" (JVC) "Q-LINK" (Panasonic)
"Megalogic" (Grundig) "Data Logic" (Metz)
"SMARTLINK" (Sony) "Easy Link" (Philips)

1

Begin



- Shown only when powering on for the first time.
- The power button on the remote control can also be used.

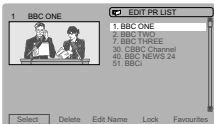
2

Automatically register DTV channels



3

Check what was registered



■ Edit DTV channels

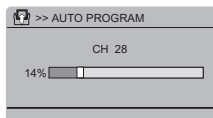
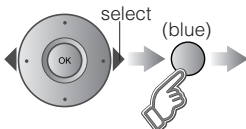
➔ 5 in "Editing DTV channels" (P. 14)

■ Confirm MENU



4

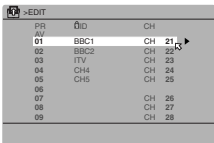
Automatically register ATV channels



- If "ACI START" appears, select and start settings. (This will set up cable television channels.)
- ➔ "What is ACI (Automatic Channel Installation)?" (P. 46)

5

Check what was registered



■ Edit ATV channels

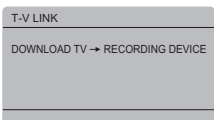
➔ 5 in "Editing ATV channels" (P. 16)

■ Confirm

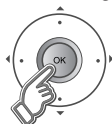


6

Finish



■ When using T-V LINK



- If "FEATURE NOT AVAILABLE" appears :
- ➔ Is a T-V LINK compatible device connected to EXT-2?
- ➔ Is the device turned on?


■ When not using T-V LINK TV/DTV



Editing DTV channels

Edit the channels registered with "Automatic search" in "Initial settings" (P. 12).

When coming from "Initial settings" (P. 12), skip to ⑤.



- 1 **Select DTV**
TV/DTV
- 2 **Display the menu bar**
MENU
- 3 **Select "DTV"**
- 4 **Select "Edit PR List"**
- 5 **Select a channel**
- 6 **Edit**
- 7 **Finish**
MENU

■ **To the previous screen**
 ➔ BACK

■ **Exit**
 ➔ MENU

■ **Tips for operation**
 ➔ **i**

Red: Page up Green: Page down TV/DTV: Go to DTV Guide: Go to guide Back: Go to previous	Exit help
---	-----------

Confirm the channel picture

Select

Delete a channel

Delete

Edit a channel name

Edit Name

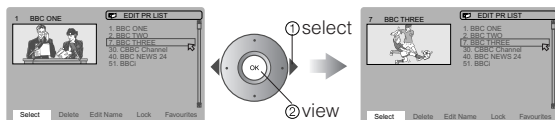
Stop Children from watching specific channels

Lock

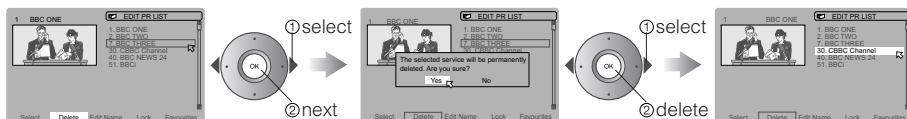
Register your favourite channel

Favourites

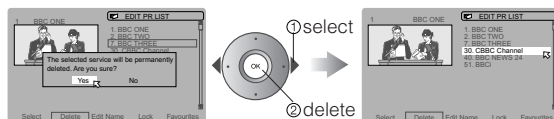
①Select "Select"



①Select "Delete"



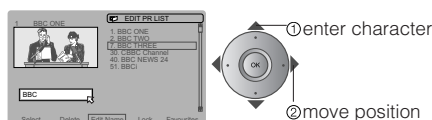
②Select "Yes"



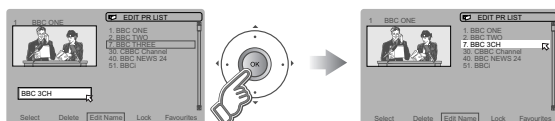
①Select "Edit Name"



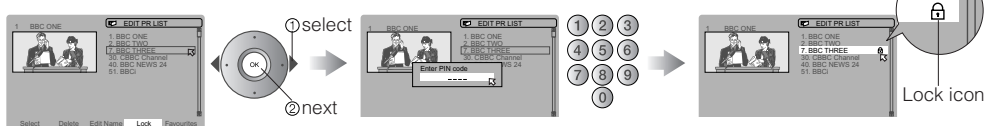
②Change the name



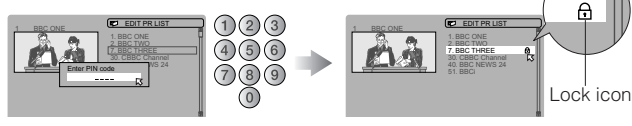
③Decide



①Select "Lock"



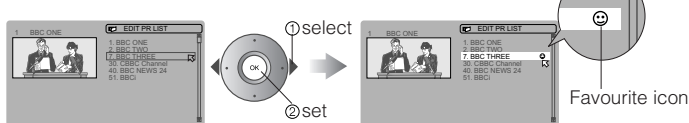
②Enter PIN code



- Default is "0000".
- ➡ "Change the PIN code" (P. 37)

- To release, repeat the same steps.

①Select "Favourites"




- To release, repeat the same steps.

- Move through only your favourite channels
- ➡ "Favourite Mode" (P. 37)

Editing ATV channels

Edit the channels registered with "AUTO PROGRAM" in "Initial settings" (P. 12).

When coming from "Initial settings" (P. 12), skip to ⑤.



- 1 **Select ATV**
TV/DTV
- 2 **Display the menu bar**
MENU
- 3 **Select "SET UP"**
- 4 **Select "EDIT/MANUAL"**
- 5 **Select a row**
- 6 **Edit**
- 7 **Confirm settings**
- 8 **Finish**

■ To the previous screen
➡ BACK

■ Exit
➡ MENU

● If "FEATURE NOT AVAILABLE" appears :
➡ Is a T-V LINK compatible device connected to EXT-2?
➡ Is the device turned on?
● T-V LINK ➡ (P. 12)

■ When using T-V LINK

■ When not using T-V LINK
TV/DTV

Move a channel's position

MOVE

Edit a channel name

ID

Insert a channel

INSERT

Delete a channel

DELETE

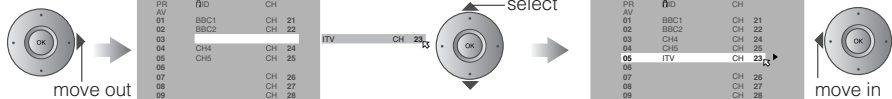
Register a new channel

MANUAL

①Begin

②Select a destination

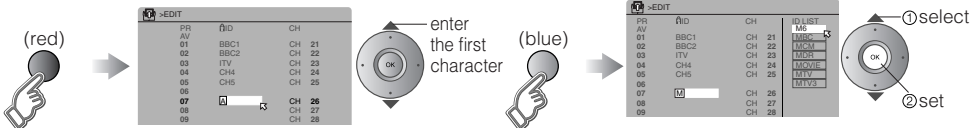
③Finish



①Begin

②Enter a channel name

■When selecting a preset name from the ID LIST



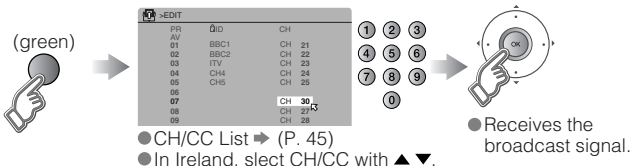
■When manually naming a channel



①Begin

②Enter a CH number

③Set

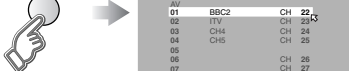


●CH/CC List → (P. 45)

●In Ireland, select CH/CC with ▲▼.

①Delete

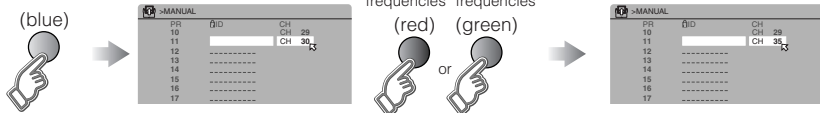
(yellow)



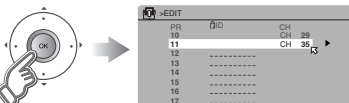
①Begin

②Search for a channel

From high frequencies (red) or From low frequencies (green)



③Set



●Auto-search begins, and the nearest frequency is imported.
 → Repeat the previous steps until the desired channel is displayed

■Picture fine tuning → (yellow) (blue)

Enjoying your new TV!

Watching TV

PAGE
20

- View channel information
- Change the aspect ratio
- Enjoy 3D sound
- Take snapshots of the screen



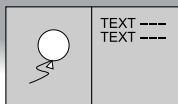
TV/DTV



Viewing teletext

PAGE
24

- Enlarge the text
- To the index page
- Hold the current page
- Switch briefly between teletext and TV
- Bookmark your favourite pages



TV and Text mode

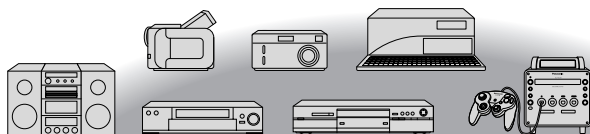
Using EPG

PAGE
22

- View the programme list for 8 days
- Search from a genre
- Reserve a programme to watch / record

GUIDE





PAGE 26Watching videos / DVDs

AV

- Watch high quality video (S-VIDEO)
- Name connected devices
- Dub videos

MENU

PAGE 32Personal preferences

- Adjust the picture
- Adjust the sound

PICTURE

Use DTV

(timer-record / configuration / channel settings, etc.)

Basic settings

(channel settings, etc.)

Advanced settings

(sleep-timer / child lock, etc.)

IMPORTANT!


PREPARE

USE

SETTINGS

TROUBLE?

Watching TV



1 Power on

The green power lamp on the TV lights.

- Press again to turn the screen off and put the TV into standby mode.

2 Select ATV/DTV

TV/DTV

- DTV : Digital broadcasting
- ATV : Analogue broadcasting

3 Select a channel

1 2 3
4 5 6
7 8 9
0

■ Move up or down a channel

up
down

- With DTV, you can select only from your favourite channels ➡ (P. 37)

■ To the previous channel

BACK

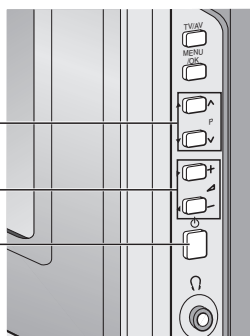
■ Mute ■ Volume

■ Switch between stereo/mono/bilingual broadcasting
➡ "STEREO/I · II" (P. 32)

Note

- To completely turn off the TV, unplug the AC plug.
- Watch pay-per-view ➡ (P. 38)
- Add a new station ➡ (P. 38)

Basic operations using the side buttons



1 Power on

2 Change the channel

■ Volume

Channel information and clock

INFORMATION

View subtitles

SUBTITLE

(DTV)

Change the aspect ratio

ZOOM

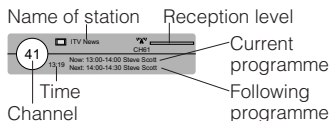
Enjoy ambient sound

3D SOUND

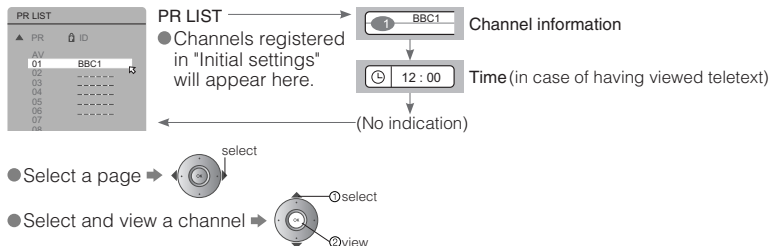
Take snapshots of the screen

FREEZE

■ When DTV is selected



■ When ATV is selected



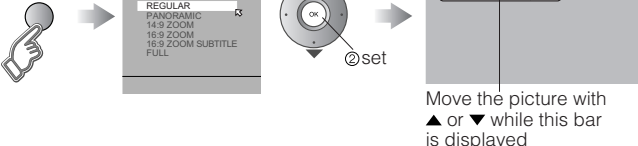
SUB TITLE



■ Turn off subtitles

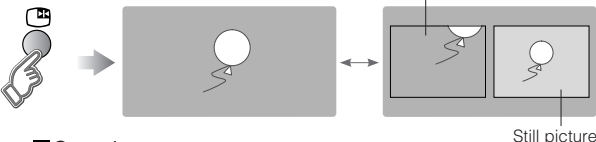
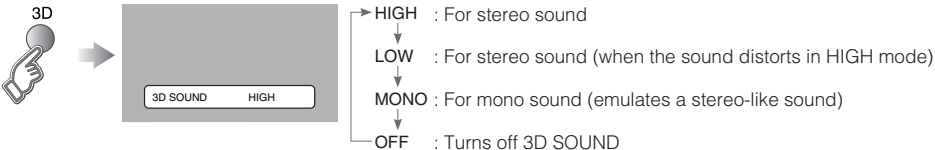


ZOOM



- When set to AUTO, the aspect ratio will turn to the ratio obtained from the information the TV received. Without receiving aspect information, it will be the setting in "4:3 AUTO ASPECT" (P. 40).
- Not available in PC mode or 1080i (1125i)/720p (750p) signals.

3D



- Not available when viewing DTV or PC.
- Not available when the SUB-PICTURE is displayed.
- You cannot save or export the snapshot.

■ Cancel

➔ Press again, or change the channel

Using EPG (Electronic Programme Guide)

You can find a programme from an eight-day programme guide, check its information, and make a reservation.

1 Select DTV
TV/DTV

2 Display EPG
GUIDE

3 Find a programme
select
next

Close EPG →

EPG

Electronic Programme Guide 05:27 20/10/2004

GENRE	All
20/10	2. BBC TWO
21/10	7. BBC THREE
22/10	30. CBBC Channel
23/10	40. BBC NEWS 24
24/10	51. BBCi
25/10	89. BBC R Scotland
26/10	90. BBC R n Gaidheal
27/10	800. 16:9monoscope
04:00-6:00	History: Britain 1750-1900
06:00-06:20	Big Cook Little Cook
06:20-06:30	Tots TV
06:30-06:45	Bobinogs
06:45-07:00	Wide Eye
07:00-07:15	Snailsbury Tales
07:15-07:30	Arthur
07:30-07:45	I Love Mummy

Select a date → Select a channel → Select a programme

● You can check programme content.

Search from a genre

① While EPG is displayed...
Display the Genre List (green)

② Select a genre

③ Find a programme

Electronic Programme Guide 05:27 20/10/2004

GENRE	All
20/10	2. BBC TWO
21/10	7. BBC THREE
22/10	30. CBBC Channel
23/10	40. BBC NEWS 24
24/10	51. BBCi
25/10	89. BBC R Scotland
26/10	90. BBC R n Gaidheal
27/10	800. 16:9monoscope
04:00-6:00	History: Britain 1750-1900
06:00-06:20	Big Cook Little Cook
06:20-06:30	Tots TV
06:30-06:45	Bobinogs
06:45-07:00	Wide Eye
07:00-07:15	Snailsbury Tales
07:15-07:30	Arthur
07:30-07:45	I Love Mummy

Electronic Programme Guide 05:43 20/10/2004

GENRE	Movies
20/10	1. BBC ONE
21/10	2. BBC TWO
22/10	7. BBC THREE
23/10	30. CBBC Channel
24/10	40. BBC NEWS 24
25/10	51. BBCi
26/10	89. BBC R Scotland
27/10	90. BBC R n Gaidheal
03:25-6:00	BBC News 24
06:00-06:15	Last Embrace

● Only programmes in the selected genre are displayed.

Reservations

Reserve a programme to watch

Programme-view setting

After ③



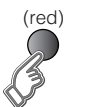
Electronic Programme Guide 06:06 20/10/2004				
GENRE	No.	Name	Start	End
2310 2 BBC TWO	06:00	Big Cook Little Cook	06:00	06:30
2310 3 BBC ONE	06:00	01/01/2004	inactive	
2310 4 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30
2310 5 BBC ONE	06:00	01/01/2004	inactive	
2310 6 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30
2310 7 BBC ONE	06:00	01/01/2004	inactive	
2310 8 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30
2310 9 BBC ONE	06:00	01/01/2004	inactive	
2310 10 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30



- At the start time, the channel will automatically change.
- If the TV's power is off at the start time, nothing happens.

■ Cancel the reservation ➔ Select the reserved programme and press "OK"

After ③



REC TIMER 06:02 20/10/2004				
No.	Name	Start	End	Date
1	BBC ONE	00:00	00:00	01/01/2004
2	BBC ONE	00:00	00:00	01/01/2004
3	BBC ONE	00:00	00:00	01/01/2004
4	BBC ONE	00:00	00:00	01/01/2004
5	BBC ONE	00:00	00:00	01/01/2004
6	BBC ONE	00:00	00:00	01/01/2004
7	BBC ONE	00:00	00:00	01/01/2004
8	BBC ONE	00:00	00:00	01/01/2004
9	BBC ONE	00:00	00:00	01/01/2004
10	BBC ONE	00:00	00:00	01/01/2004



REC TIMER 06:02 20/10/2004				
No.	Name	Start	End	Date
1	BBC TWO	06:30	06:45	20/10/2004
2	BBC ONE	00:00	00:00	01/01/2004
3	BBC ONE	00:00	00:00	01/01/2004
4	BBC ONE	00:00	00:00	01/01/2004
5	BBC ONE	00:00	00:00	01/01/2004
6	BBC ONE	00:00	00:00	01/01/2004
7	BBC ONE	00:00	00:00	01/01/2004
8	BBC ONE	00:00	00:00	01/01/2004
9	BBC ONE	00:00	00:00	01/01/2004
10	BBC ONE	00:00	00:00	01/01/2004

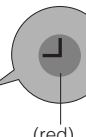
- Prepare for recording
- Set the recording device to external input mode before the start time.
- For T-V LINK incompatible devices, manually set the timer on the device. For details, refer to the manual of the recorder.
- Make sure that recording times on the recording device do not overlap with recording times on the TV.
- When Rec Timer has been set, the power lamp on the TV will :
Start blinking 3 minutes before the start time (green or red)
Light during recording (green or orange)
- Some T-V LINK compatible DVD recorders may not work correctly.

■ Exit ➔ Press "MENU"

■ Confirm the reservation



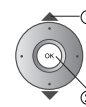
Electronic Programme Guide 06:06 20/10/2004				
GENRE	No.	Name	Start	End
2310 2 BBC TWO	06:00	Big Cook Little Cook	06:00	06:30
2310 3 BBC ONE	06:00	01/01/2004	inactive	
2310 4 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30
2310 5 BBC ONE	06:00	01/01/2004	inactive	
2310 6 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30
2310 7 BBC ONE	06:00	01/01/2004	inactive	
2310 8 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30
2310 9 BBC ONE	06:00	01/01/2004	inactive	
2310 10 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30



- At the start time, the channel will automatically change and the device connected to EXT-2 will begin recording the programme.

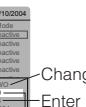
■ Change a reservation

➔ "MENU" ➔ "DVB" ➔ "Rec Timer"



① select a reservation
② next

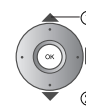
REC TIMER 06:02 20/10/2004				
No.	Name	Start	End	Date
1	BBC ONE	00:00	00:00	01/01/2004
2	BBC ONE	00:00	00:00	01/01/2004
3	BBC ONE	00:00	00:00	01/01/2004
4	BBC ONE	00:00	00:00	01/01/2004
5	BBC ONE	00:00	00:00	01/01/2004
6	BBC ONE	00:00	00:00	01/01/2004
7	BBC ONE	00:00	00:00	01/01/2004
8	BBC ONE	00:00	00:00	01/01/2004
9	BBC ONE	00:00	00:00	01/01/2004
10	BBC ONE	00:00	00:00	01/01/2004



- Change with ◀▶
- Enter using the numerical keypad
- Change with ◀▶ (Once/Daily/Weekly)

■ Cancel a reservation

➔ "MENU" ➔ "DVB" ➔ "Rec Timer"



① select a reservation
② set the mode to "Inactive"

REC TIMER 06:02 20/10/2004				
No.	Name	Start	End	Date
1	BBC ONE	00:00	00:00	01/01/2004
2	BBC ONE	00:00	00:00	01/01/2004
3	BBC ONE	00:00	00:00	01/01/2004
4	BBC ONE	00:00	00:00	01/01/2004
5	BBC ONE	00:00	00:00	01/01/2004
6	BBC ONE	00:00	00:00	01/01/2004
7	BBC ONE	00:00	00:00	01/01/2004
8	BBC ONE	00:00	00:00	01/01/2004
9	BBC ONE	00:00	00:00	01/01/2004
10	BBC ONE	00:00	00:00	01/01/2004

Reserve a programme to record

Programme-record setting

GUIDE



Electronic Programme Guide 06:06 20/10/2004				
GENRE	No.	Name	Start	End
2310 2 BBC TWO	06:00	Big Cook Little Cook	06:00	06:30
2310 3 BBC ONE	06:00	01/01/2004	inactive	
2310 4 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30
2310 5 BBC ONE	06:00	01/01/2004	inactive	
2310 6 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30
2310 7 BBC ONE	06:00	01/01/2004	inactive	
2310 8 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30
2310 9 BBC ONE	06:00	01/01/2004	inactive	
2310 10 BBC NEWS 24	06:00	06:45: Wide Eye	06:00	06:30



- At the start time, the channel will automatically change and the device connected to EXT-2 will begin recording the programme.

IMPORTANT!

PREPARE


USE

SETTINGS

TROUBLE?

Viewing teletext

This TV can display TV broadcasts and teletext on the same channel in two windows.



1 Select ATV/DTV
TV/DTV

2

■ When DTV is selected
➔ Operate according to the screen indications

■ When ATV is selected
➔ Enter a teletext page

1 2 3
4 5 6
7 8 9
0

● Move up or down a page
up
P down

● View sub-pages
to sub-page

01 02

01 02

...

■ When ATV is selected
When watching TV

TV

TEXT

TEXT

TEXT

Bookmark your favourite page

LIST MODE
(ATV)

1 F.T/L Display your favourites list

(RED) (GREEN) (YELLOW) (BLUE)

???

2 Select a coloured button to save your page to

(red) (green) (yellow) (blue)

???

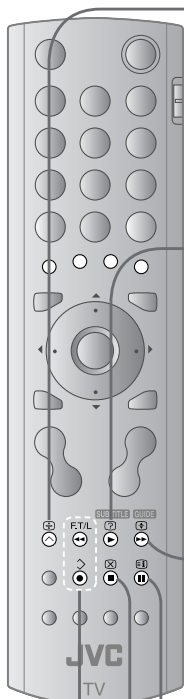
3 Enter the number of the page to save

1 2 3
4 5 6
7 8 9
0

???

4 Save

■ Recall your favourite page ➔ Press the coloured button as in step 2



Hold the current page

HOLD
(ATV)



Hold the current page

■Release → Press  again

Reveal hidden pages

REVEAL
(ATV)



Display hidden information
(answers to quizzes, etc)

$$\begin{array}{rcl} 1 & + & 2 = \\ 2 & \times & 3 = \end{array}$$

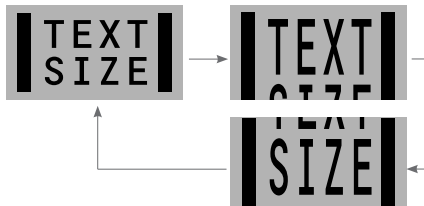
$$\begin{array}{rcl} 1 & + & 2 = 3 \\ 2 & \times & 3 = 6 \end{array}$$

Enlarge the text

SIZE
(ATV)



Double the size of the displayed text



To the index page

INDEX
(ATV)



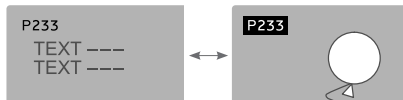
Returns to page "100"
or a previously designated page

Switch briefly from teletext to TV

CANCEL
(ATV)



Leave the current page open,
while you switch to watch TV



●Useful when running a page search.

IMPORTANT!

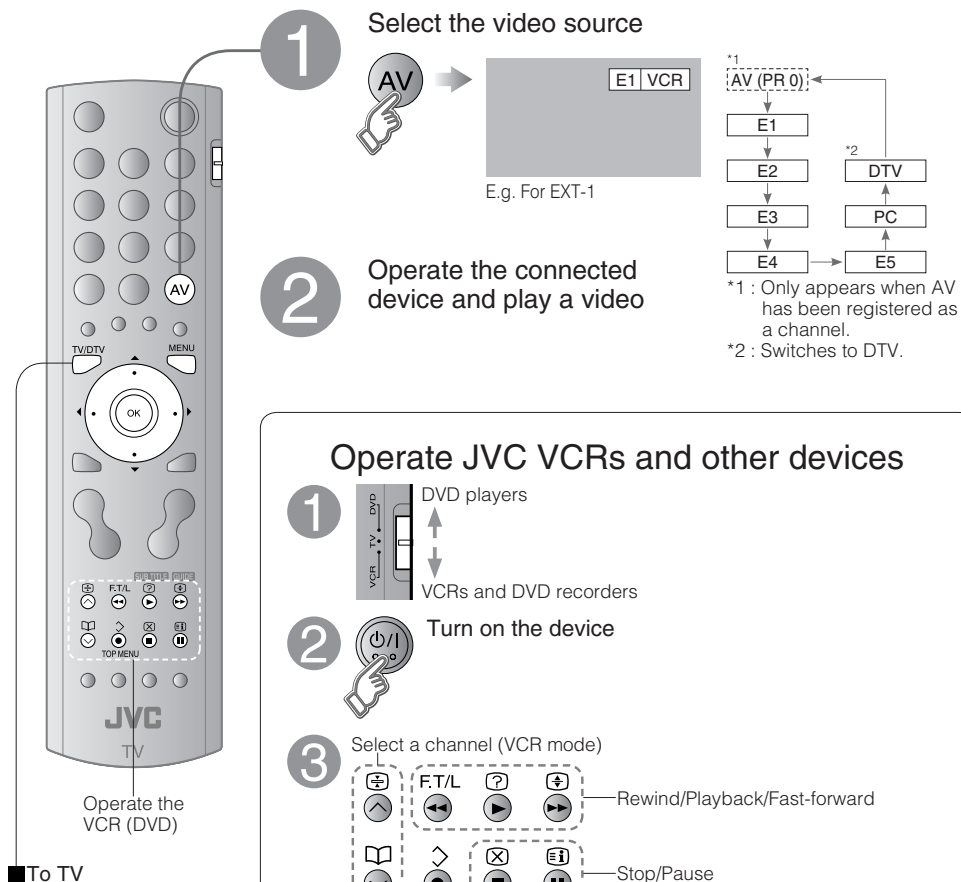
PREPARE

USE

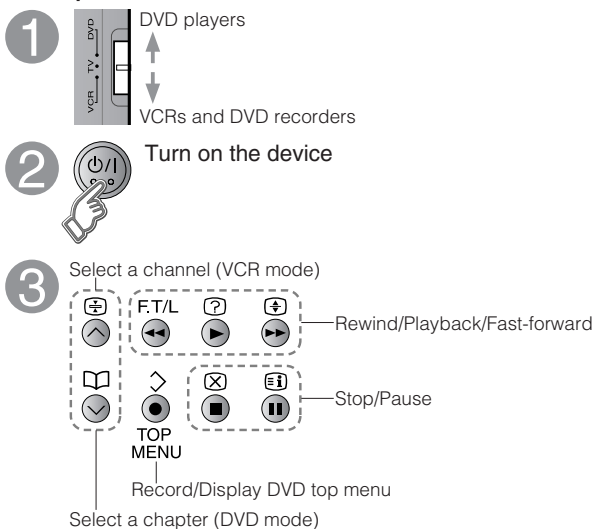
SETTINGS

TROUBLE?

Watching videos / DVDs

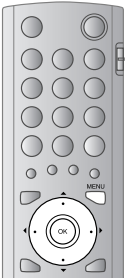


Operate JVC VCRs and other devices



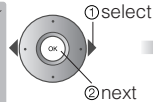
● Some models of JVC devices cannot be operated with this remote control.

Advanced functions

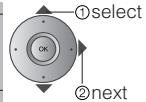
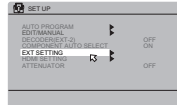


1 MENU Display the menu bar

2 Select "SET UP"



Select "EXT SETTING"

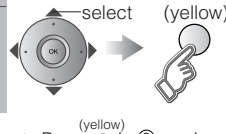
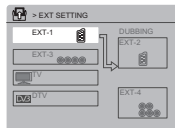


Switch to S-VIDEO input/output

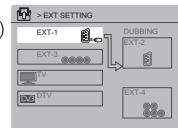
S-IN

S-OUT
(DTV)

①Select the EXT connected to S-VIDEO



②Set S-VIDEO input



- The device selection display will change from E1 to S1.
- S-OUT is not available when EXT-2 receives an RGB input.

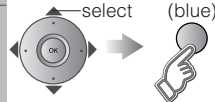
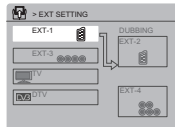
■Cancel this mode ➔ Press in ② again

■Set the S-OUT ➔ Cancel S-IN at "EXT-2", then select "DTV" and press yellow button. (available only for DTV)

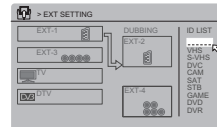
Edit names of connected devices

ID LIST

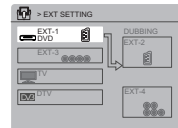
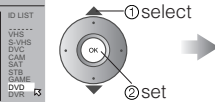
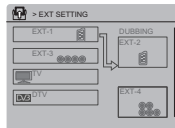
①Select an EXT to assign a name to



②Show the name list



③Select a name from the list

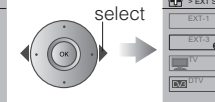
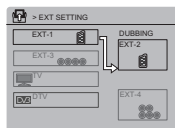


■Clear the name ➔ Select the blank space in ③

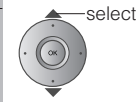
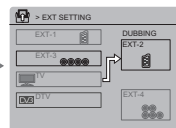
Set up dubbing on EXT-2

DUBBING

①Select the arrow



②Select the dubbing source



■Record DTV with S-VIDEO ➔ Set S-OUT at "DTV".

IMPORTANT!

PREPARE

USE

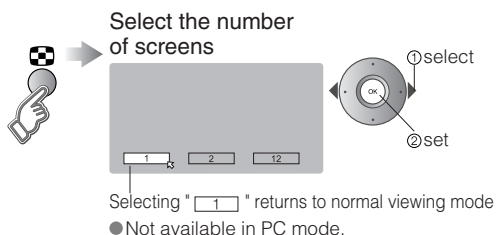
SETTINGS

TROUBLE?

Useful functions

Watch in multi-picture mode

MULTI-PICTURE



■ Watch in dual-picture mode

E.g. You can watch TV and video at the same time.

(For wide aspect ratio signals)

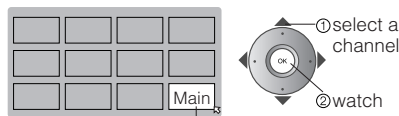


- Switch between the sound sources
→
- Change the channel
→ (Main)
- (Sub)

- When watching DTV programmes, there may be occasions where the aspect ratio changes, for example during commercials. In this case, the layout of the screen in dual-picture mode changes automatically according to the aspect ratio signal.

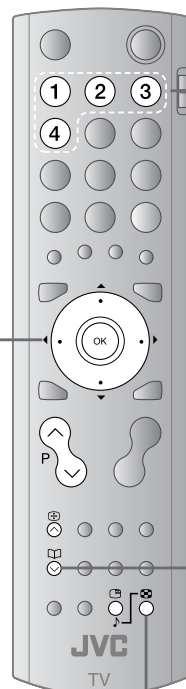
■ Select a channel in 12-screen mode (ATV)

All registered channels are displayed as still images.



Only the selected frame has a moving picture.

- Move up or down a page →
- Not available when in DTV channels or EXT-5 input.



Register a channel to a button

FAVOURITE CHANNEL
(ATV)

While the channel is displayed



(For 3 seconds)



Press the number to register it on

① ② ③ ④



● "NOT AVAILABLE" is displayed:
Already registered

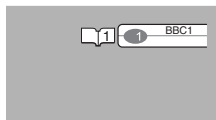
Disappears after a few seconds

■ Recall the favourite channel





Press the number you registered

① ② ③ ④



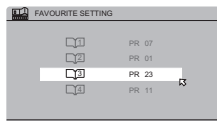
● Customisations (P. 32) to the picture of a favourite channel get saved as well.

● "NOT MEMORY" is displayed:
Not registered

■ Check your favourite channels ➔ Press  and confirm that the channels you have registered have a  beside them

■ Delete a favourite channel

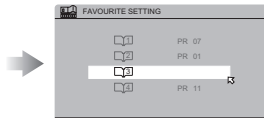
➔ "MENU" ➔  ➔ "FEATURES" ➔ "FAVOURITE SETTING"



select

Delete


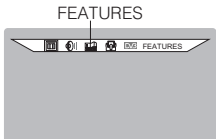

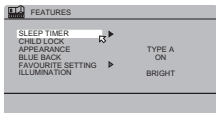

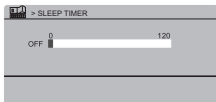

(blue)



Useful functions

Set a time
for the TV to
turn itself off

SLEEP TIMER

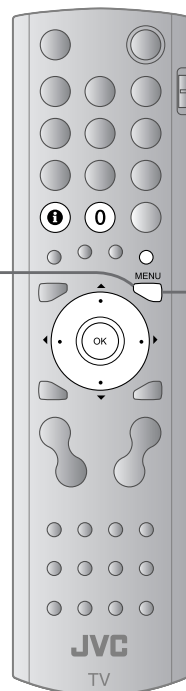
- 1 
- 2 

 - ① select "FEATURES"
 - ② next
- 3 

 - ① select "SLEEP TIMER"
 - ② next
- 4 

 - ① select a time in minutes
 - ② set

■ Cancel

➔ Set the time to "0" in step 4


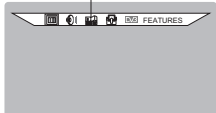


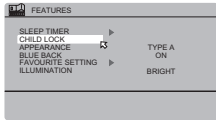






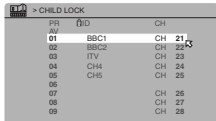


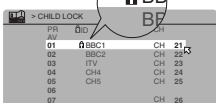


■ Remaining time

➔ You can confirm the remaining time at step 4, after repeating this process.





Stop children from watching specific channels

CHILD LOCK
(ATV)

- 1  MENU
- 2  FEATURES
 ① select "FEATURES"
 ② next
- 3 
 select "CHILD LOCK" 
- 4 
 ① enter an "ID NO."
 (a secret number of your choice)
 ② to the next column
 ③ set
- 5 
 select a channel to lock
- 6 (blue)  
 select a channel to lock
Lock more channels
 Repeat steps 5 and 6
- 7 

■ Release a channel ➔ Press  again in step 6

■ View a locked channel ➔ Use the numerical buttons to enter the channel number.
 When  appears, press  and enter your "ID NO."
 (If you forget your "ID NO.", check it in step 4.)

IMPORTANT!

PREPARE

USE

SETTINGS

TROUBLE?

Customising your TV



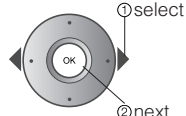
1

Display the menu bar



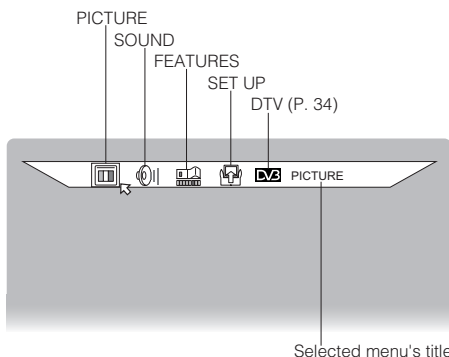
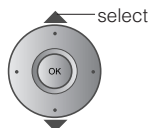
2

Select a menu



3

Select an item



Selected menu's title

■ To the previous screen



BACK

■ Exit

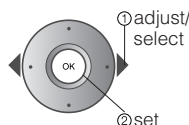


MENU

- The menu disappears after one minute of inactivity.

4

Adjust/Configure



■ When adjusting with the sliding-bar



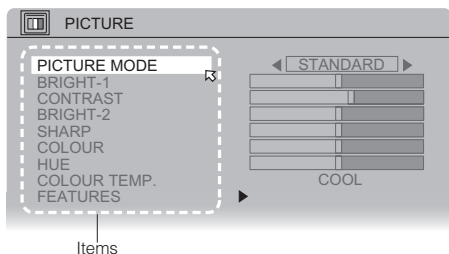
Move

■ When selecting from presets

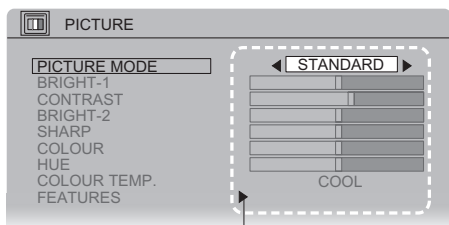


The item will change.

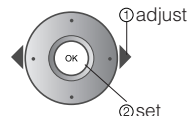
- Some items have a sub-menu.



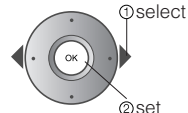
Items








Sub-menu
Adjustments / Configurations



2 set



2 set

Menu	Item	Adjustments / Configurations
 PICTURE	PICTURE MODE	Picture mode (BRIGHT / STANDARD / SOFT)
	BRIGHT-1	Backlight brightness (Darker ⇔ Brighter)
	CONTRAST	Contrast (LOWER ⇔ HIGHER)
	BRIGHT-2	Brightness (DARKER ⇔ BRIGHTER)
	SHARP	Sharpness (SOFTER ⇔ SHARPER)
	COLOUR	Colour (LIGHTER ⇔ DEEPER)
	HUE	Tint (REDDISH ⇔ GREENISH)
	COLOUR TEMP.	Colour temperature (WARM / NORMAL / COOL)
	FEATURES	Finer picture adjustments (P. 40)
 SOUND	STEREO / I · II	Mode / Language (∞ : STEREO / ○ : MONO / I : SUB1 / II : SUB2)
	BASS	Low tones (WEAKER ⇔ STRONGER)
	TREBLE	High tones (WEAKER ⇔ STRONGER)
	BALANCE	Speaker balance (LEFT STRONGER ⇔ RIGHT STRONGER)
	3D SOUND	Ambience level (HIGH / LOW / MONO / OFF)
	A.H.B.	Emphasize the bass sound (ON / OFF)
 FEATURES	BBE *	Sound enhancement technology (ON / OFF)
	SLEEP TIMER	Timer for turning off the TV (P. 30)
	CHILD LOCK	Stop children from watching specific channels (P. 31)
	APPEARANCE	Format for displaying the channel number (TYPE A / TYPE B / TYPE C / TYPE D)
	BLUE BACK	Display a blue screen and mute the sound when the signal is weak or absent (ON / OFF)
	FAVOURITE SETTING	Clear favourite channel settings (P. 29)
 SET UP	ILLUMINATION	Lights illumination lamp (P.6) while the power is turned on (BRIGHT / SOFT / OFF)
	AUTO PROGRAM	Select the country of installation, automatically register channels (P. 12, ④)
	EDIT / MANUAL	Change registered channels or add new ones (P. 16)
	DECODER(EXT-2)	For when connected to VCR with T-V LINK (ON / OFF)
	COMPONENT AUTO SELECT	Changes the TV input to EXT-4 when the component signals are input to EXT-4. (ON/OFF) (Not available when viewing DTV or PC)
	EXT SETTING	For use with video players and other devices (P. 27)
	HDMI SETTING	SIZE (AUTO / 1 / 2) AUDIO (AUTO / ANALOGUE / DIGITAL)
	ATTENUATOR	For when the picture is not displayed because of too strong radio waves (ON/OFF)

● Other settings · Change the aspect ratio ➡ "ZOOM" (P. 20)
· Turn on 3D SOUND ➡ "3D SOUND" (P. 20)

* BBE licence ➡ (P. 46)

IMPORTANT!

PREPARE

USE


SETTINGS

TROUBLE?

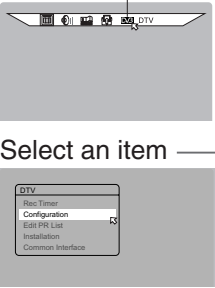
Using DTV

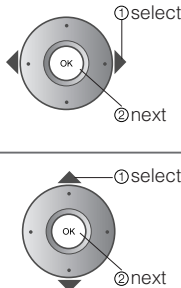
Timer-record setting

DTV original function and setting, such as a recorder-linked timer-record setting, can be selected from the DTV menu.



- 1** Select DTV
TV/DTV
- 2** Display the menu bar
MENU
- 3** Select "DTV"
- 4** Select an item





● Rec Timer ➡ "Recording using timer setting" (P. 34)

● Configuration ➡ "Change AV settings" (P. 36)

● Edit PR List ➡ "Editing DTV channels" (P. 14)

● Installation ➡ "Reset channel/Register a new channel/Initialise the DTV settings" (P. 38)

● Common Interface ➡ "Set pay-per-view" (P. 38)

■ To the previous screen
➡ BACK

■ Exit
➡ MENU

● The menu disappears after one minute of inactivity.

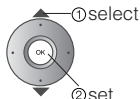
● DTV menu cannot be operated with the front panel buttons.

Recording using timer setting

Rec Timer

1 Select an "Inactive" column

REC TIMER 06:02 20/10/2004					
No.	Name	Start	End	Date	Mode
1	BBC ONE	00:00	00:00	01/01/2000	Inactive
2	BBC ONE	00:00	00:00	01/01/2000	Inactive
3	BBC ONE	00:00	00:00	01/01/2000	Inactive
4	BBC ONE	00:00	00:00	01/01/2000	Inactive
5	BBC ONE	00:00	00:00	01/01/2000	Inactive



● Settings can be overwritten.

Channels

Start to End

Dates

Timer-record setting state (Active : timer set
Inactive : completed, cancelled)

2 Input timer-record setting details

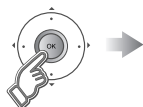
REC TIMER 06:02 20/10/2004					
No.	Name	Start	End	Date	Mode
1	BBC ONE	00:00	00:00	01/01/2004	Inactive
2	BBC ONE	00:00	00:00	01/01/2004	Inactive
3	BBC ONE	00:00	00:00	01/01/2004	Inactive
4	BBC ONE	00:00	00:00	01/01/2004	Inactive
5	BBC ONE	00:00	00:00	01/01/2004	Inactive
6	BBC ONE	00:00	00:00	01/01/2004	Inactive
7	BBC ONE	00:00	00:00	01/01/2004	Inactive
8	BBC ONE	00:00	00:00	01/01/2004	Inactive
9	BBC ONE	00:00	00:00	01/01/2004	Inactive
10	BBC ONE	00:00	00:00	01/01/2004	Inactive

Change with ◀▶

Enter using the numerical keypad

Change with ◀▶
(Once/Daily/Weekly)

3 Set



REC TIMER 06:02 20/10/2004					
No.	Name	Start	End	Date	Mode
1	BBC TWO	06:30	06:45	20/10/2004	Active
2	BBC ONE	00:00	00:00	01/01/2000	Inactive
3	BBC ONE	00:00	00:00	01/01/2000	Inactive
4	BBC ONE	00:00	00:00	01/01/2000	Inactive
5	BBC ONE	00:00	00:00	01/01/2000	Inactive
6	BBC ONE	00:00	00:00	01/01/2004	Inactive
7	BBC ONE	00:00	00:00	01/01/2004	Inactive
8	BBC ONE	00:00	00:00	01/01/2004	Inactive
9	BBC ONE	00:00	00:00	01/01/2004	Inactive
10	BBC ONE	00:00	00:00	01/01/2004	Inactive

- A message will be displayed if you set past dates.
- The channel will be selected automatically at the set start time, and the recorder connected to EXT-2 will start recording.

- For more details about the timer-record setting, refer to the notice of ➔ "Prepare for recording" (P. 23)

■ Cancel a timer-record setting

- ➔ Select the column at step 1 and press ▶. (Mode will be changed to "Inactive")

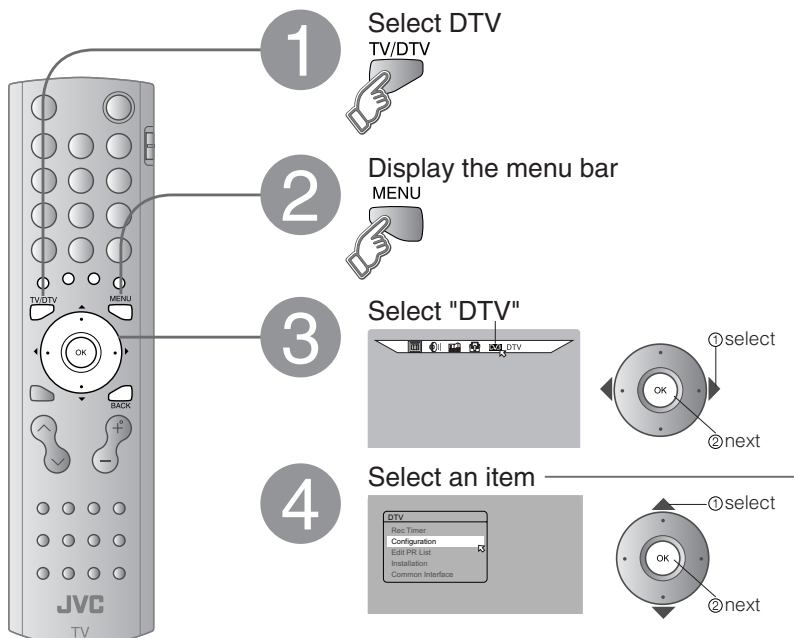
■ Change a timer-record setting

- ➔ Select the column at step 1 and repeat steps 2 and 3.

Using DTV

AV setting

Available for changing subtitle languages for DTV, favourite channel selection, changing PIN code, and upgrading the tuner software. Also, you can upgrade the tuner software as newer versions become available.



■ To the previous screen



■ Exit



● The menu disappears after one minute of inactivity.

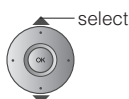
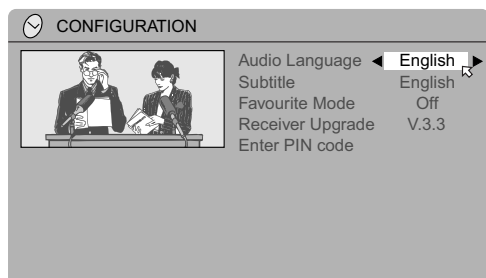
● DTV menu cannot be operated with the front panel buttons.

- Rec Timer ➔ "Recording using timer setting" (P. 34)
- Configuration ➔ "Change AV settings" (P. 36)
- Edit PR List ➔ "Editing DTV channels" (P. 14)
- Installation ➔ "Reset channel/Register a new channel/Initialise the DTV settings" (P. 38)
- Common Interface ➔ "Set pay-per-view" (P. 38)

Change
AV settings

Configuration

1 Select a configuration item



2 Change settings

■ **Audio Language** | **Subtitle** : Change language
 ■ **Favourite Mode** : Channel selection method



Audio Language	Switch languages (English / Welsh / Gaelic)
Subtitle	
Favourite Mode	Select only DTV channels registered by using "Favourites" (P. 14) with $\wedge \vee$ (On/Off)

■ **Receiver Upgrade** : Upgrade tuner

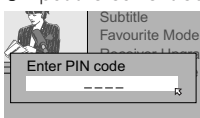


Automatic Download	Automatically and periodically (Enabled/Disabled)
Search for New Version	Download now (Press "OK" button.)

■ **Enter PIN code** : Change PIN code

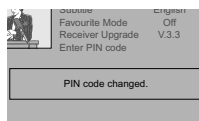
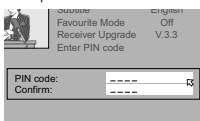


① Input the current code



- Default is "0000".
- If you forget the code
 ➔ Default the code in
 "Reset channel registration"
 (P. 38)


② Input a new code twice.



Using DTV

Registration and setting

Available for registration of DTV channels, initialisation of all DTV settings, and downloading software to use pay-per-view.



1 Select DTV
TV/DTV

2 Display the menu bar
MENU

3 Select "DTV"

4 Select an item

● Rec Timer ➔ "Recording using timer setting" (P. 34)
● Configuration ➔ "Change AV settings" (P. 36)
● Edit PR List ➔ "Editing DTV channels" (P. 14)
● Installation ➔ "Reset channel/Register a new channel/Initialise the DTV settings" (P. 38)
● Common Interface ➔ "Set pay-per-view" (P. 38)

● DTV menu cannot be operated with the front panel buttons.

■ To the previous screen
➔ BACK

■ Exit
➔ MENU

● The menu disappears after one minute of inactivity.

Reset
channel
registration

Register a
new channel

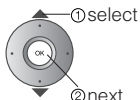
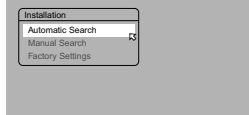
Initialise the
DTV settings

Installation

Set pay-per-
view

Common Interface

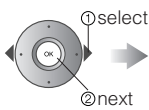
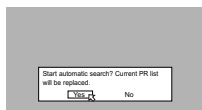
1 Select an installation item



2 Change setting

Automatic Search : Reset channel registration

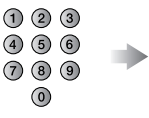
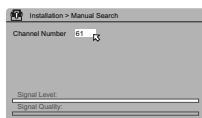
① Select "Yes"



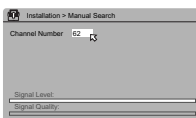
● Displays "Edit PR List" (P. 14) after registering channels.

Manual Search : Register a new channel

① Enter a channel number



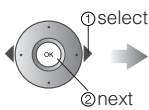
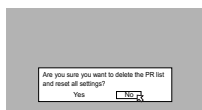
② Receive the channel



● When receiving is completed, a message will be displayed and the screen will return to ①.

Factory Setting : Initialise the DTV settings

① Select "Yes"



② Start channel registration

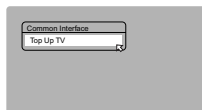


● ③ in "Initial settings" (P.12)

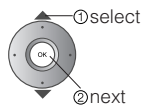
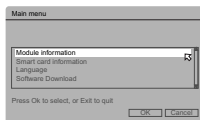
Preparation : Set the CAM etc. after contracting with the broadcasting company

► "Watch pay-per-view" (P. 8)

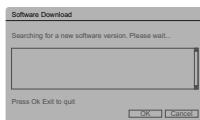
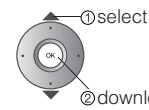
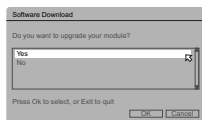
① Select the broadcasting station



② Select "Software Download"



③ Select "Yes"



● Use this menu for settings and contract content for pay-per-view.

► For details, consult your broadcasting company

Advanced picture adjustment

By default, the TV automatically adjusts itself for the best picture.



1 Display the menu bar
MENU

2 Select "PICTURE"
PICTURE

① select
② next

3 Select "FEATURES"
FEATURES

① select
② next

4 Select an item
DIGITAL VNR

① select
② next

E.g. DIGITAL VNR

5 Change settings
DIGITAL VNR

① select
② set

E.g. DIGITAL VNR

6 Finish

■ To the previous screen
BACK

■ Exit
MENU

● The menu disappears after one minute of inactivity.

DIGITAL VNR

Super DigiPure

MOVIE THEATRE

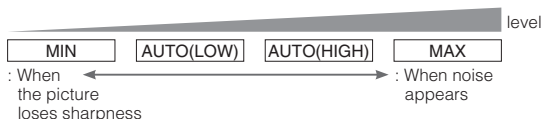
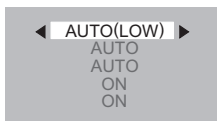
COLOUR MANAGEMENT

PICTURE MANAGEMENT

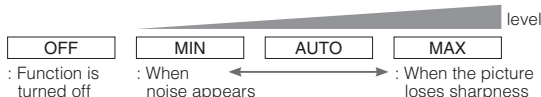
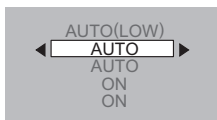
COLOUR SYSTEM

4:3 AUTO ASPECT

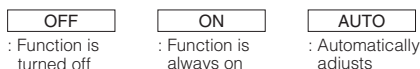
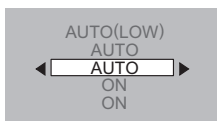
To reduce noise



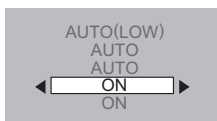
For natural-looking outlines



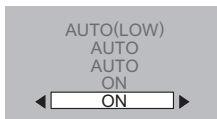
For smooth cinema film



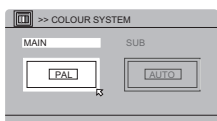
For natural-looking pictures



Fix bright/dark pictures



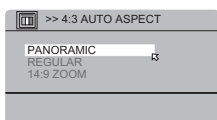
When there is no colour



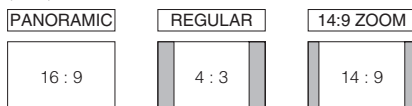
- ① Select the screen to change settings on
- MAIN SUB
- : Main picture : Sub-picture in MULTI-PICTURE mode (P. 28)

- ② Select the colour system
- PAL NTSC 3.58 NTSC 4.43 AUTO
- : Western : USA : USA : When watching Europe 3.58 MHz 4.43 MHz videos, etc.

Set a default aspect ratio



Select a default aspect ratio for "AUTO" in "ZOOM" (P.20)



Troubleshooting

Severe noise or snow



- Is the TV connected correctly to the aerial?
- Change the direction of the aerial.
- Is the aerial or its cable damaged?
 - ➡ Consult your retailer

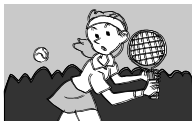
Patterns, stripes or noise



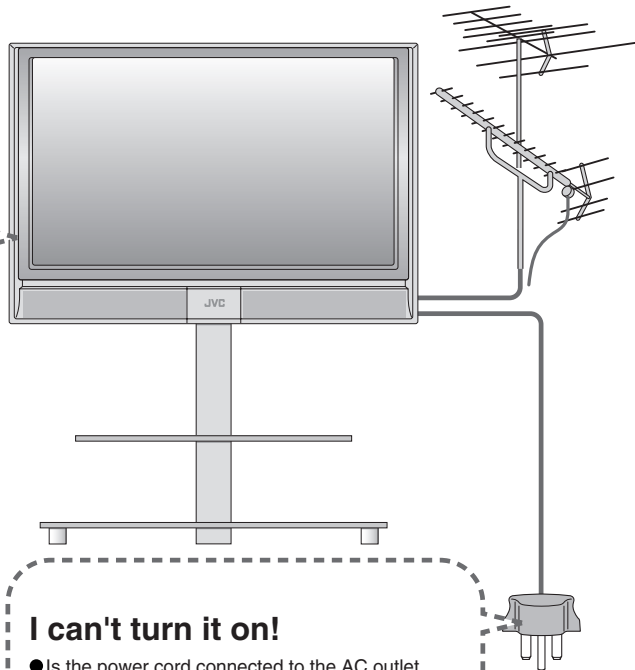
- Is the aerial receiving interference from high-voltage power lines or wireless transmitters?
 - ➡ Consult your retailer
- Are connected devices too close to the TV?
 - ➡ Insert the minimum distance between the aerial and the cause of interference until no interference

Ghosting

(Doubling of images)



- Are you receiving interference from signals reflected off mountains or buildings?
 - ➡ Adjust the direction of your aerial, or change to a good-quality directional aerial






I can't turn it on!

- Is the power cord connected to the AC outlet correctly?



The remote control doesn't work!

- Are the batteries flat?
- Are you more than 7 metres away from the TV?
- Is the "VCR/TV/DVD SWITCH" set to "TV"?
- When viewing teletext, the TV menu bar does not appear.
- Depending on the stability of the signal, there may be a time lag when changing channels.

Problem		Actions	page
Basics	Not displayed (black screen)	<ul style="list-style-type: none"> ● Is the ATV reception poor, too? ➔ Following the instructions in "Severe noise or snow" can solve this problem. ● Is there a DTV transmission tower nearby? ➔ Turn "ATTENUATOR" to "ON", since the radio waves are too strong. ● There may be problems at the antenna, radio waves, or the area you live in, where reception is bad. Consult your retailer. 	42 33 —
	Remote control stops working	<ul style="list-style-type: none"> ● Unplug TV, several minutes later plug it in again. 	—
	DTV screen is frozen	<ul style="list-style-type: none"> ● Hold down  and  on the TV simultaneously to restart. 	—
Screen	Some functions do not work	<ul style="list-style-type: none"> ● It is not a malfunction. Some functions (dark background) in the menu do not work depending on the situation. 	—
	Aspect ratio changes unintentionally	<ul style="list-style-type: none"> ● Press  to return to your settings. 	20
	Poor picture quality	<ul style="list-style-type: none"> ● Unnatural colour >>> Adjust COLOUR and BRIGHT-1. Check your COLOUR SYSTEM. ● Noise >>> Set to the following functions. PICTURE MODE : STANDARD DIGITAL VNR : AUTO (HIGH) Super DigiPure : MIN ● Dull picture >>> Set to the following functions. PICTURE MODE : BRIGHT DIGITAL VNR : MIN Super DigiPure : MAX 	33 40 33 40 40 32 40 40
Picture	Strange picture when using an external device	<ul style="list-style-type: none"> ● If you connected S-Video output device, check the "S-IN" setting. ● If the top of the image is distorted, check the video signal quality itself. ● If movement appears unnatural when receiving a signal from a DVD player, etc. with 625p (progressive-scanning), change the output setting of the external device to 625i (interlace-scanning). 	27 — —
	Poor sound	<ul style="list-style-type: none"> ● Adjust the BASS and TREBLE. ● If receiving a poor signal in "STEREO/I·II", switch to MONO. 	33 33
Sound			

Troubleshooting (continued)

	Problem	Actions	page
HDMI	Wrong screen size	● Switch SIZE in HDMI SETTING to "1" or "2".	33
	No sound	● Switch AUDIO in HDMI SETTING to ANALOGUE or DIGITAL.	33
	Green and distorted screen	● Wait a little for the signal to stabilize when switching the signal format for an HDMI device.	—
Functions	Some inputs are skipped in the sub-picture	● DTV channels, EXT-4/EXT-5 inputs, and PC mode cannot be selected in the sub-picture.	—
Error message	"FEATURE NOT AVAILABLE"	<ul style="list-style-type: none"> ● Is the T-V LINK compatible device connected to EXT-2? ● Is the SCART CABLE "Fully Wired"? ● Is the T-V LINK compatible device turned on? After confirming all the conditions above, press "OK" button again.	46 46 —
	"ACI ERROR"	● Press ◀ to start ACI again. If you still receive the "ACI ERROR" after numerous tries, press ▶ to cancel ACI.	—
	"NO RECORDING"	● A problem occurs at the recorder.	—
	"NO RECORDING POSSIBLE"	● The displayed video cannot be recorded.	—
	"NO RECORDING MEDIA PROBLEM"	● The recorder is not ready for recording. Check the videotape or DVD disc.	—
	"NO RECORDING DEVICE BUSY"	● The recorder is recording another programme, or is playing.	—
Screen	Black or white dots appear on the screen	● LCD panels use fine dots ("pixels") to display images. While more than 99.99% of these pixels function properly, a very small number of pixels may not light, or may light all the time. Please understand that this is not a malfunction.	—

Problem		Actions	page
DTV	An error message does not disappear	<ul style="list-style-type: none"> Deleting a DTV channel may cause an error message to appear while other channels displayed. ➔ Register channels again in "Automatic Search" 	39

CH/CC List

- To use the INSERT function (P. 16), find the CH/CC number corresponding to the TV's channel number from this table. If you want to know a particular TV channel's channel menu, look in TV listings magazines or contact the broadcaster.
- When the COUNTRY setting is UNITED KINGDOM, the CC number channels and channels from CH02 to CH12 cannot be received.

CH	Channel
CH 02	E2, IR A
CH 03	E3, IR B
CH 04	E4, IR C
CH 05	E5, IR D
CH 06	E6, IR E
CH 07	E7, IR F
CH 08	E8, IR G
CH 09	E9
CH 10	E10, IR H
CH 11	E11, IR J
CH 12	E12
CH 21	E21
CH 22	E22
CH 23	E23
CH 24	E24
CH 25	E25
CH 26	E26
CH 27	E27
CH 28	E28
CH 29	E29
CH 30	E30
CH 31	E31
CH 32	E32
CH 33	E33
CH 34	E34
CH 35	E35
CH 36	E36
CH 37	E37
CH 38	E38
CH 39	E39

CH	Channel
CH 40	E40
CH 41	E41
CH 42	E42
CH 43	E43
CH 44	E44
CH 45	E45
CH 46	E46
CH 47	E47
CH 48	E48
CH 49	E49
CH 50	E50
CH 51	E51
CH 52	E52
CH 53	E53
CH 54	E54
CH 55	E55
CH 56	E56
CH 57	E57
CH 58	E58
CH 59	E59
CH 60	E60
CH 61	E61
CH 62	E62
CH 63	E63
CH 64	E64
CH 65	E65
CH 66	E66
CH 67	E67
CH 68	E68
CH 69	E69

CC	Channel
CC 01	S1
CC 02	S2
CC 03	S3
CC 04	S4
CC 05	S5
CC 06	S6
CC 07	S7
CC 08	S8
CC 09	S9
CC 10	S10
CC 11	S11
CC 12	S12
CC 13	S13
CC 14	S14
CC 15	S15
CC 16	S16
CC 17	S17
CC 18	S18
CC 19	S19
CC 20	S20
CC 21	S21
CC 22	S22
CC 23	S23
CC 24	S24
CC 25	S25
CC 26	S26
CC 27	S27
CC 28	S28
CC 29	S29
CC 30	S30

CC	Channel
CC 31	S31
CC 32	S32
CC 33	S33
CC 34	S34
CC 35	S35
CC 36	S36
CC 37	S37
CC 38	S36
CC 39	S39
CC 40	S40
CC 41	S41
CC 75	X
CC 76	Y
CC 77	Z
CC 78	Z+1
CC 79	Z+2

Technical information

What is T-V LINK?

T-V LINK allows the TV to share information easily with a connected T-V LINK compatible device.
By using T-V LINK :

- You can send the ATV channel information programmed on the TV to the T-V LINK compatible device, so that both the TV and the external device have the same channel settings. When connecting a new external device, channel information is loaded into it, allowing channel setup to be completed very quickly. For more details, refer to the external device's manual.
- You can easily record the TV programme you are viewing on a T-V LINK compatible device by using the "DIRECT REC" feature. For more details, refer to the external device's manual.
- After timer-record setting, the TV will instruct the recorder to start and stop recording, via DIRECT REC.

What is ACI (Automatic Channel Installation)?

Some cable companies transmit a signal called ACI which contains information that allows TV channels to be registered automatically on your TV.

When an ACI signal is received, "ACI START/ACI CANCEL" appears in the "AUTO PROGRAM" screen.

PC Signals that can be displayed

Macintosh computers are not supported.
(Macintosh is a registered trademark of Apple Computer, Inc.)

- If the signal doesn't appear, check that the vertical frequency on the PC is set to 60Hz.

Resolution	640 x 480 (VGA)	1024 x 768 (XGA)
Vertical frequency (Hz)	60.0	60.0
Horizontal frequency (kHz)	31.5	42.0

Connect DVI devices

Connect a DVI device to EXT-5 (HDMI) using DVI-HDMI conversion cable. Connect analogue sound output of the DVI device to L and R terminals in EXT-4.

- Set AUDIO in HDMI SETTING to ANALOGUE or AUTO ➡ (P. 33)

If you accidentally cut the power cord

Attach a new plug following the steps below. If in doubt, contact your local retailer.

Important

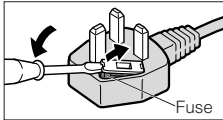
- Never connect to the larger terminal marked with an "E", the safety earth symbol "⏏" or coloured green or green-and-yellow.
- The wires in the mains lead on this product are coloured with the following code:
 - Blue: Neutral wire (connect to the black terminal, or one marked "N")
 - Brown: Live wire (connect to the red terminal, or one marked "L")

Change the fuse in the plug

Open the plug as illustrated on the right.

- When replacing the fuse, always use a correctly rated and approved type and re-fit the fuse cover when finished.

If in doubt, contact your local retailer.



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BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

Specifications

Main unit

Model	LT-37DS6FJ
Broadcasting systems	CCIR, I
Colour systems	PAL ·The EXT terminals also support the NTSC 3.58/4.43 MHz system.
Channels and frequencies	●Analogue : E21-E69 (UNITED KINGDOM) IR A-J, E2-E12, E21-E69 (IRELAND) ●Digital : 474 MHz-850MHz (channel 21-68)
Sound-multiplex systems	NICAM (I) system.
Teletext systems	Analogue : FLOF (Fastext), WST (World Standard System). Digital : MHEG 5 UK profile
Power requirements	AC 110 V - 240 V, 50/60Hz
Audio output (Rated power output)	10 W + 10 W
Speakers	6.6 cm round x 2
Power consumption [standby]	183 W [2.6 W]
Screen size (visible area size measured diagonally)	94 cm
Dimensions (W x H x D : mm) [without stand]	926 x 1130.5 x 565.5 [926 x 631.5 x 108.5]
Weights [without stand]	39.4 kg [20.9 kg]
Accessories	(See "Check accessories", P. 5)

- This TV has the CAM (Conditional Access Module) slot for watching pay-per-view.
Please note that the CAM and viewing card must be purchased separately.

Terminals / Connectors

Terminal name		Terminal type	Signal type (IN)	Signal type (OUT)
Input / Output terminals	EXT-1	Euroconnector x1 (SCART connector)	Composite video, S-video, Analog RGB, AUDIO L / R	TV out
	EXT-2	Euroconnector x1 (SCART connector)	Composite video, S-video, Analog RGB, AUDIO L / R	Dubbing out (S-VIDEO out is available only for DTV channels)
Input terminals	EXT-3	RCA connectors x 3, S-VIDEO connector x 1	Composite video, S-video AUDIO L / R	
	EXT-4	RCA connectors x 5	Analogue component (576i (625i) / 480i (525i), Progressive : 576p (625p) / 480p (525p), HD : 1080i (1125i), 720p (750p)) AUDIO L / R	
	EXT-5 (HDMI)	HDMI connector x 1	HDMI (576i (625i) / 480i (525i) / 576p (625p) / 480p (525p), 1080i (1125i), 720p (750p))	
	PC INPUT	D-SUB (15 pins) x 1	Analogue PC signal (P. 46)	
Output terminals	AUDIO OUT	RCA connectors x 2		Audio L / R
	Headphone	Stereo mini-jack x 1 (3.5 mm in diameter)		Headphone output

- We may change the design and specifications without notice.



For users in the UK :

If you have any problems setting up your new TV, please call the **JVC** Helpline on **0870 330 5000**.

For users in the Republic of Ireland :

If you have any problems setting up your new TV, please call the **JVC** Helpline on **1890-582500**.